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PLATES AND INDEX
TO
LECTURES
ON
NATURAL AND EXPERIMENTAL
PHILOSOPHY,

BY THE LATE

GEORGE ADAMS,

MATHEMATICAL INSTRUMENT MAKER TO HIS MAJESTY, &c.

THE SECOND EDITION,

WITH CONSIDERABLE CORRECTIONS AND ADDITIONS, BY

WILLIAM JONES,

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THE SECOND EDITION

WILLIAM JONES



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ERRATA.

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Fig. 18.



Fig. 17.

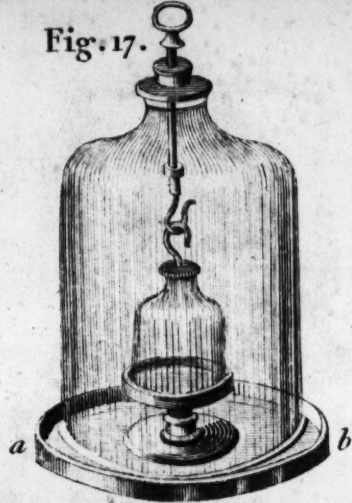


Fig. 16.



Fig. 16.*



Fig. 1.

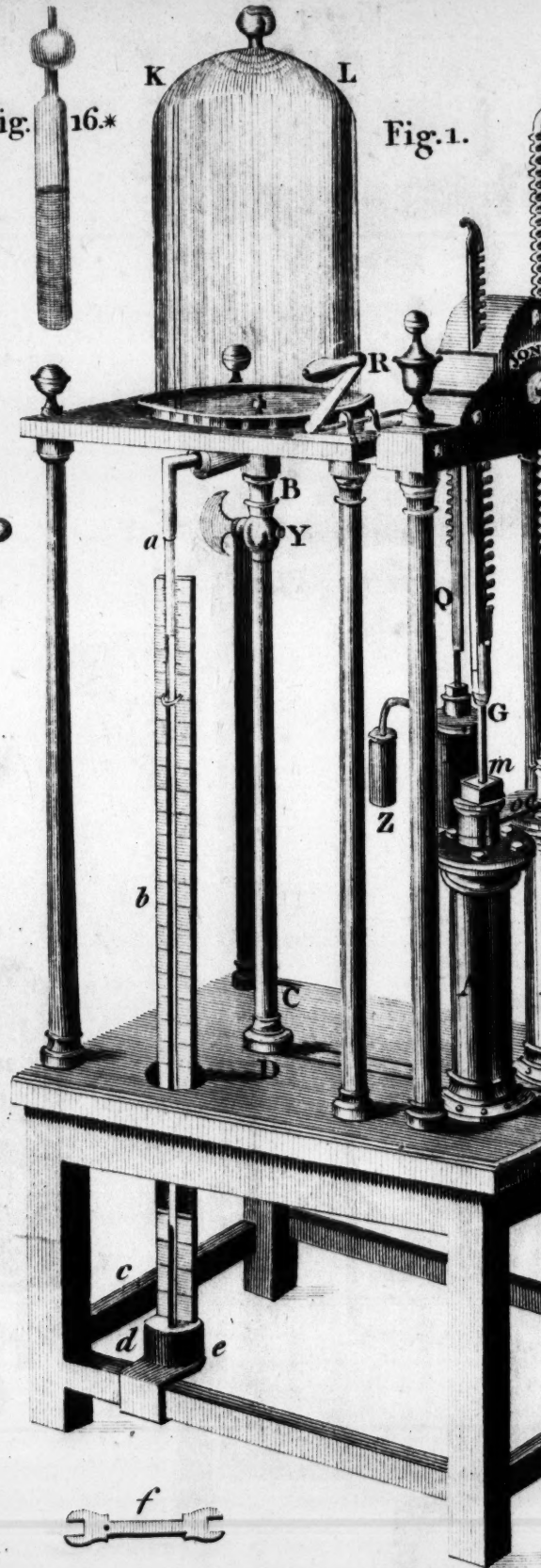


Fig. 19.

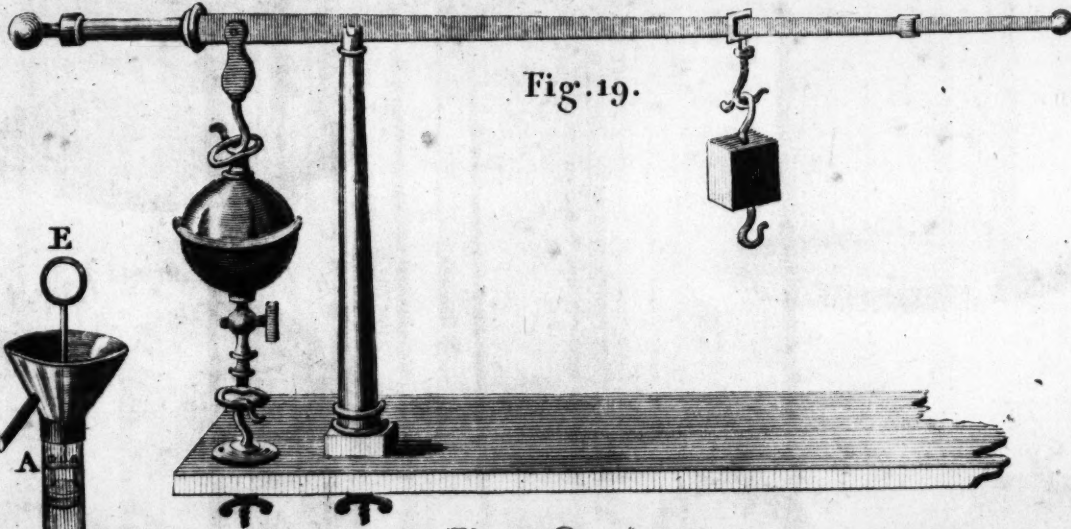


Fig. 22.



Fig. 21.

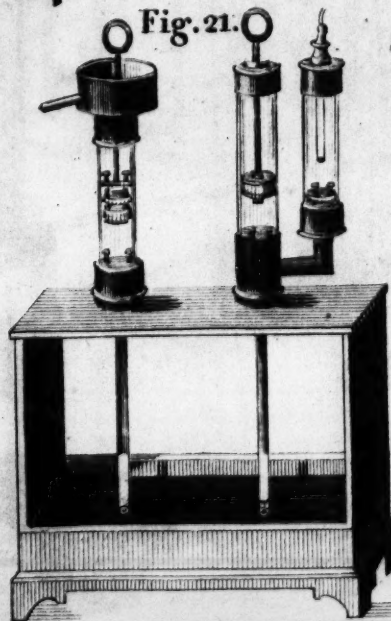
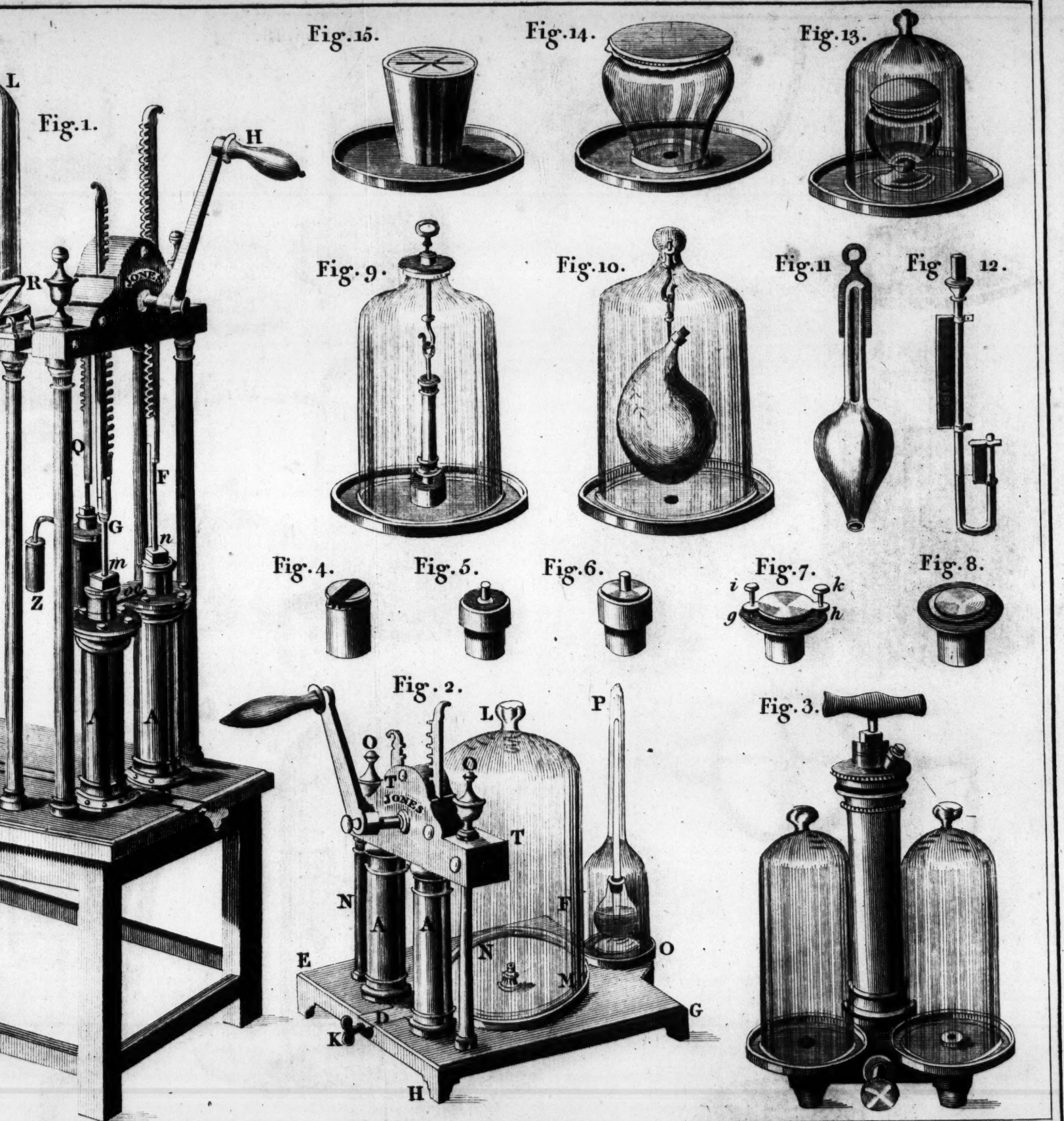
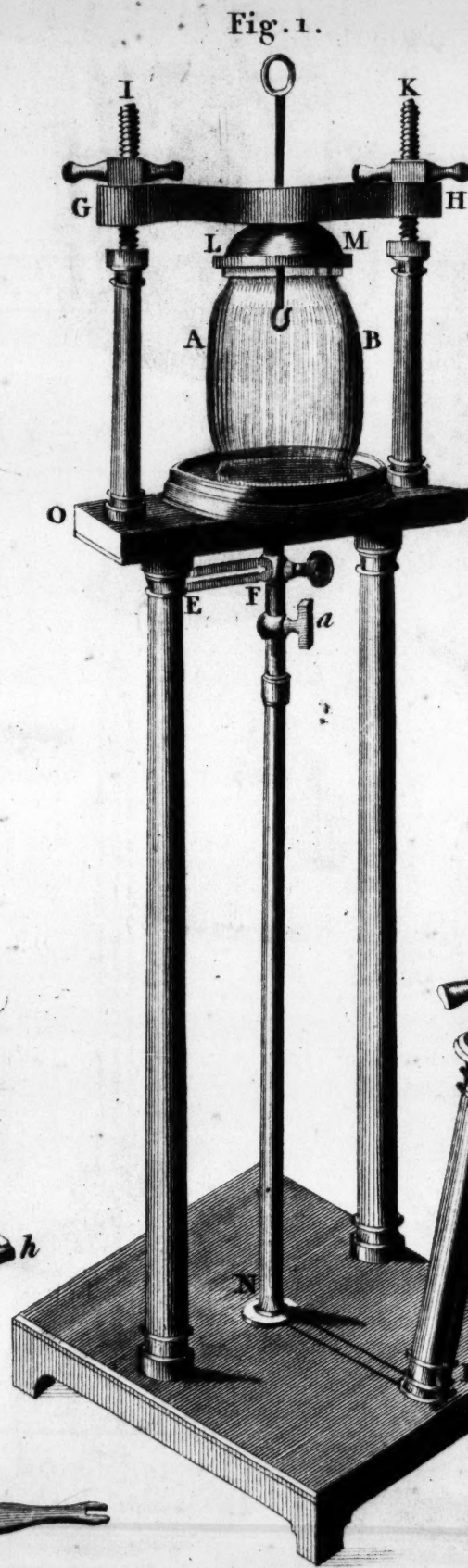
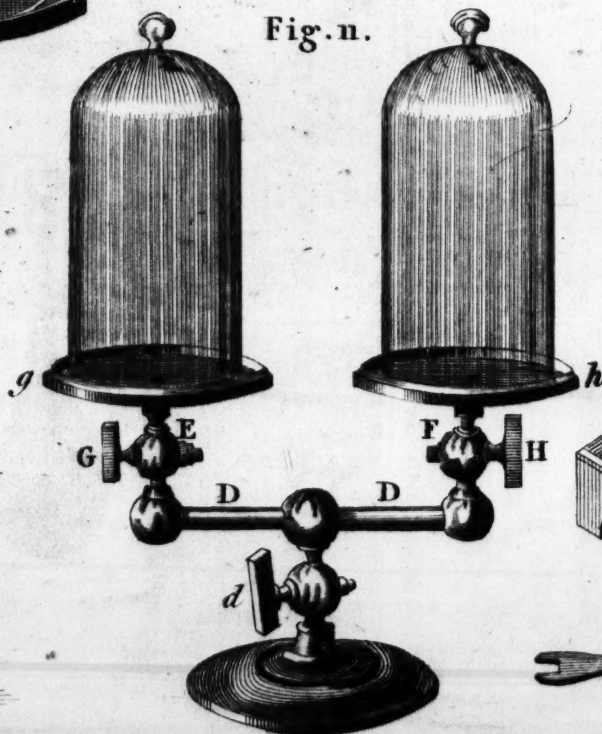
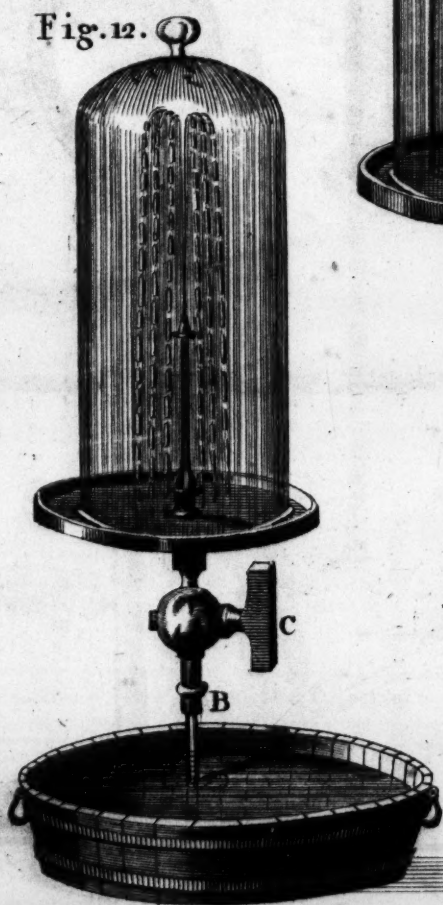
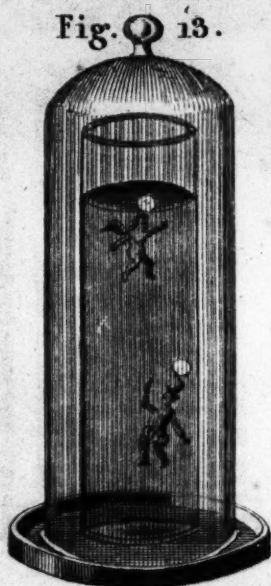


Fig. 20.







AIR

Fig. 1.

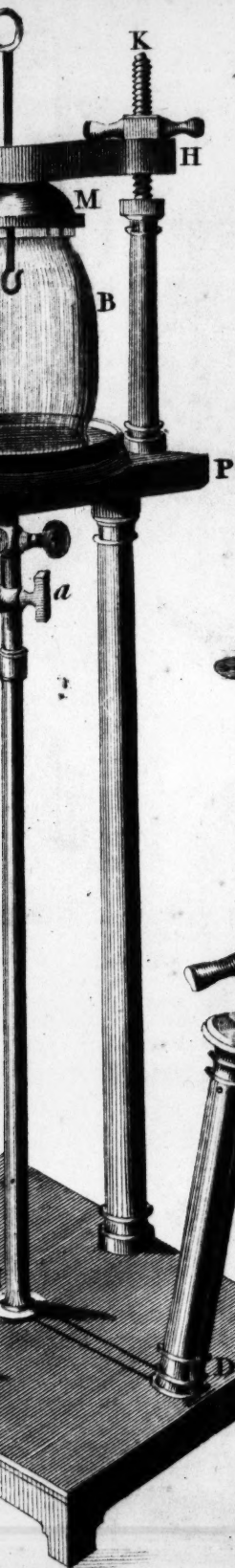


Fig. 2.

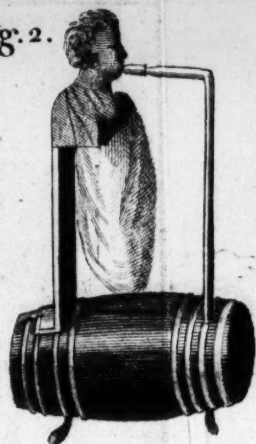


Fig. 3.



Fig. 4. B

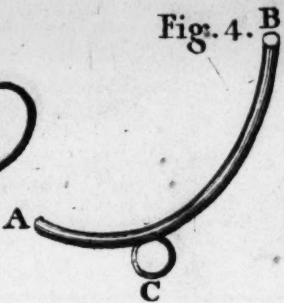


Fig. 5.

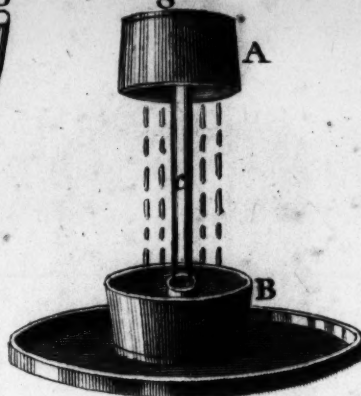


Fig. 8.

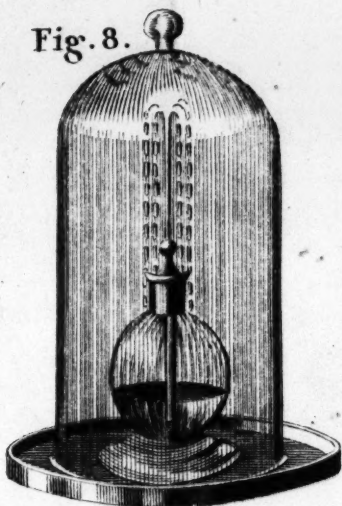


Fig. 17.



Fig. 7.

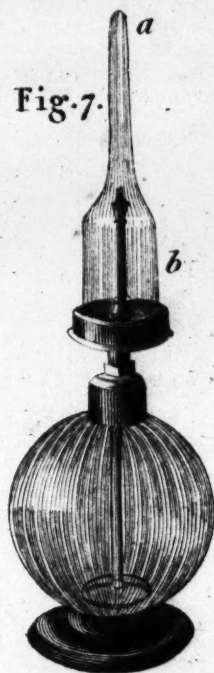


Fig. 6.

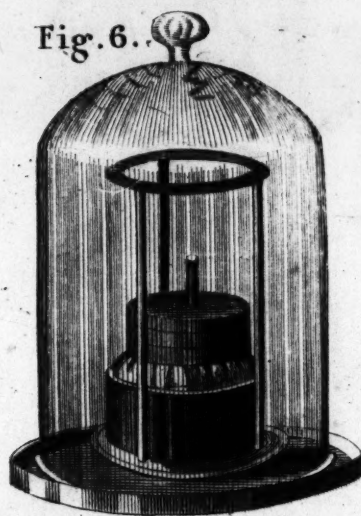


Fig. 9.

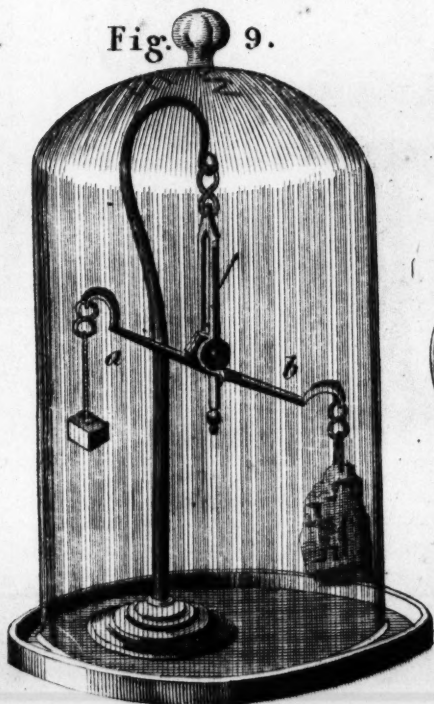


Fig. 10.

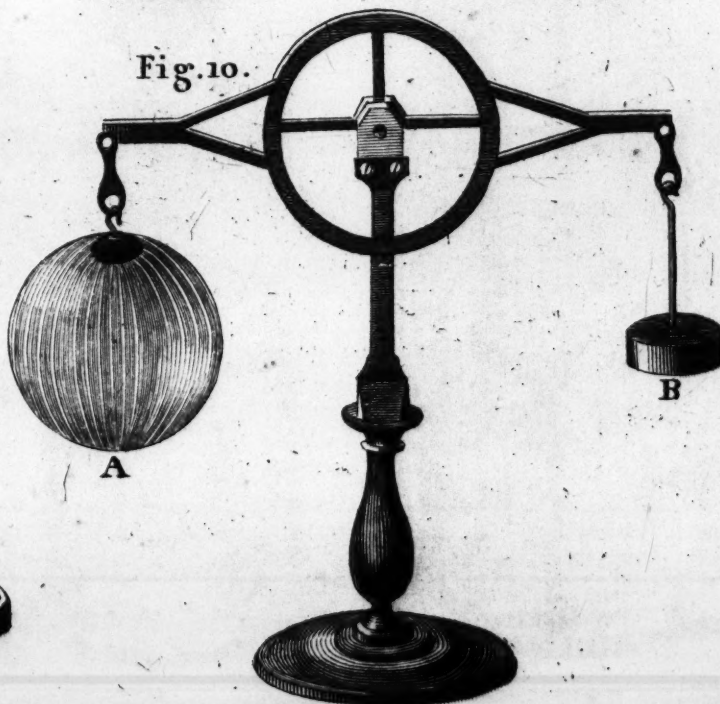


Fig. 1.

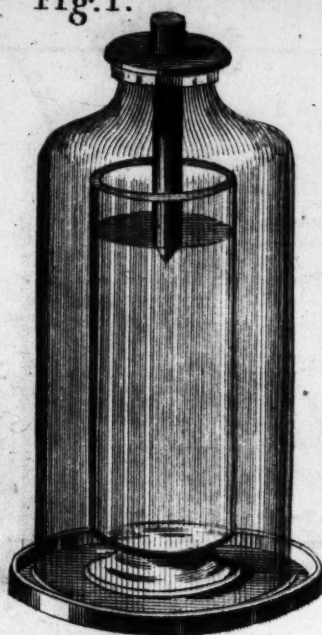


Fig. 2.

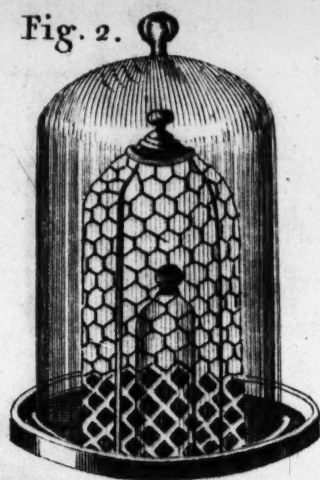


Fig. 3.



Fig. 4.



Fig. 9.

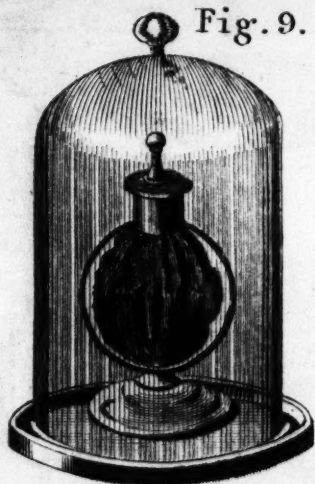


Fig. 8.

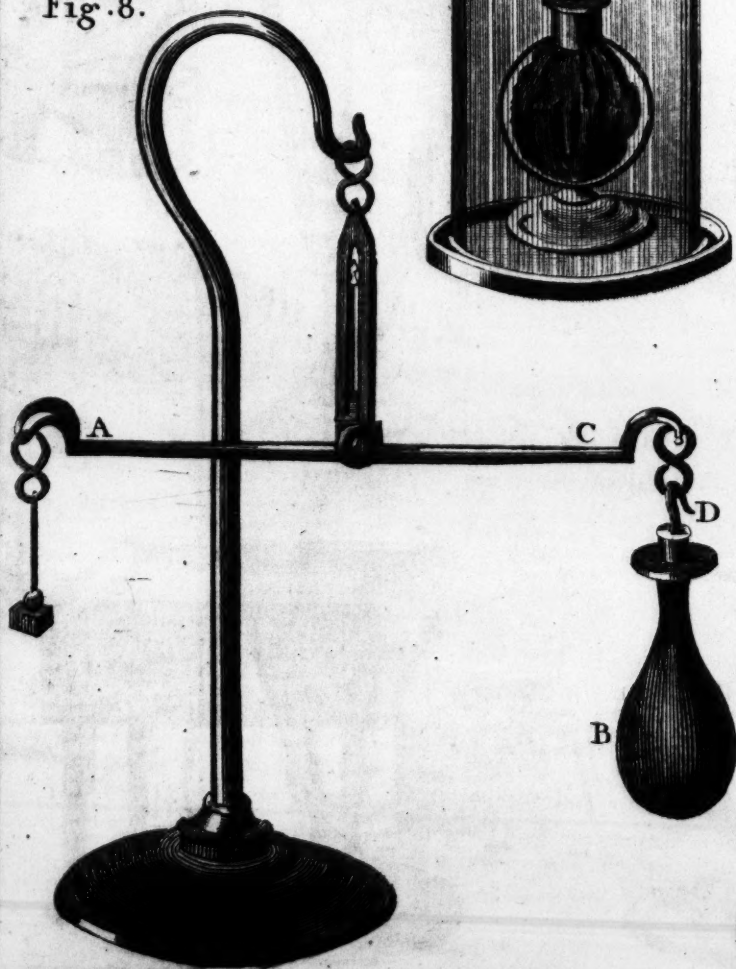


Fig. 10.

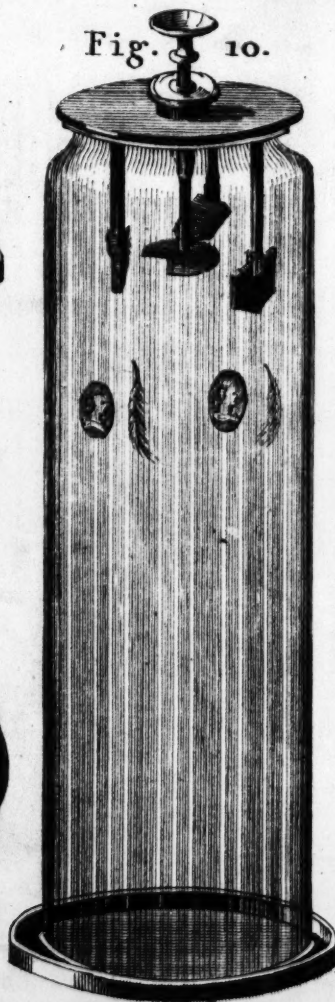


Fig. 11.

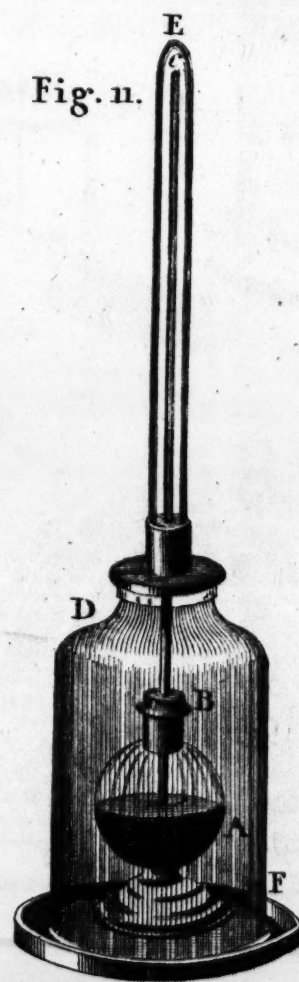


Fig. 12.



Fig. 13.





Fig. 7.

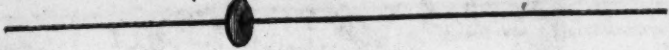


Fig. 8.

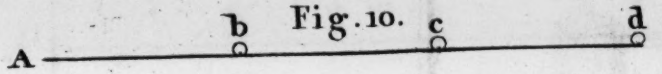
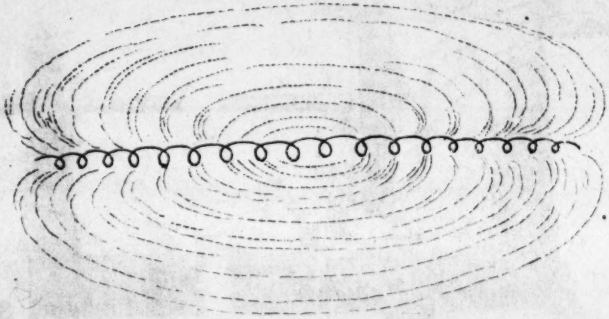


Fig. 5.

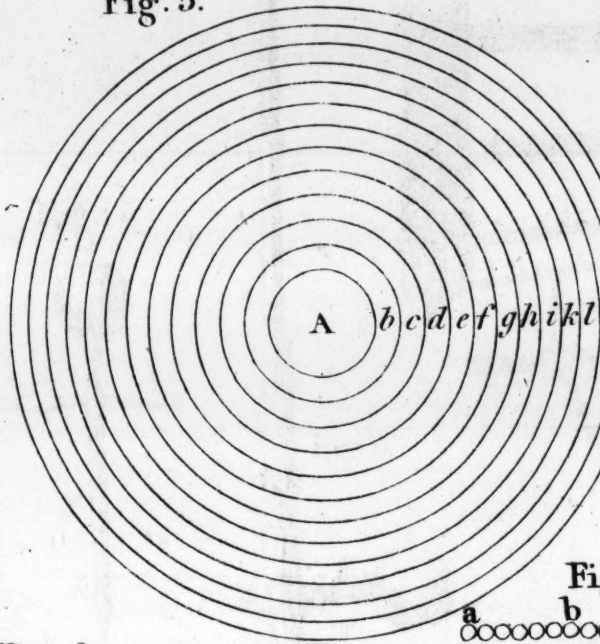


Fig. 9.

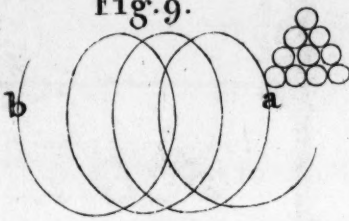


Fig. 6.

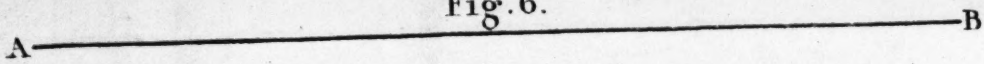


Fig. 1.



Fig. 3.

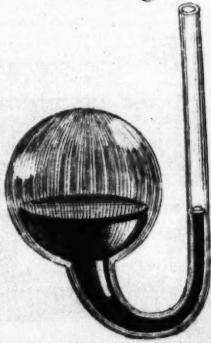


Fig. 14.

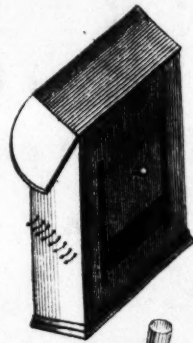


Fig. 23.

Fig. 17.

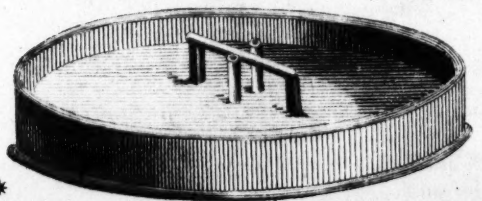


Fig. 2.



Fig. 11.

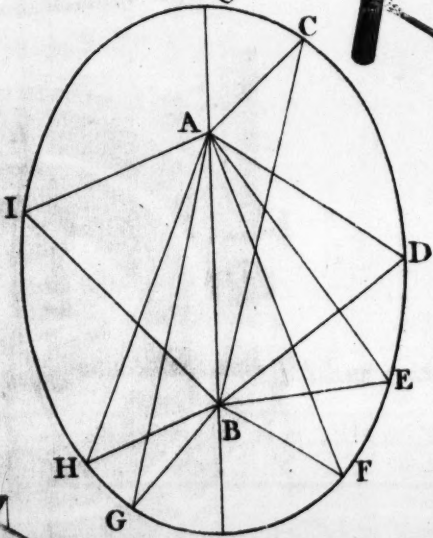


Fig. 23.*



Fig. 14.

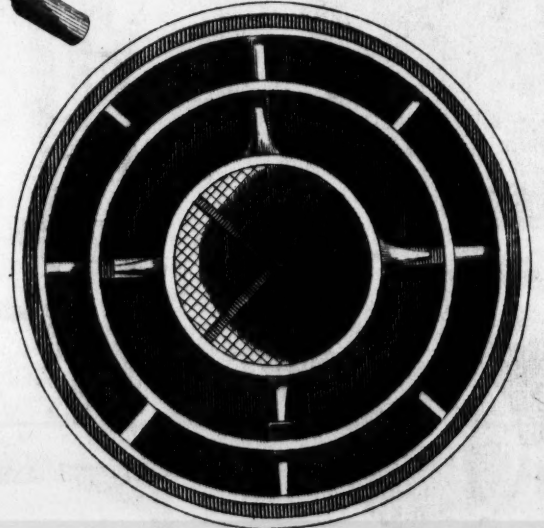


Fig. 4.

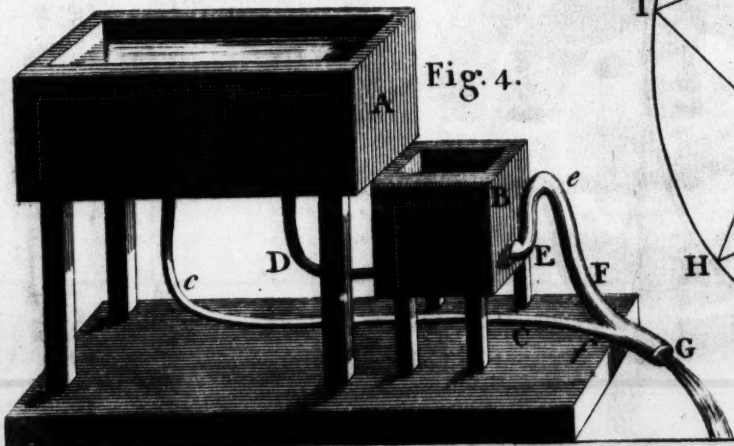




Fig. 1.

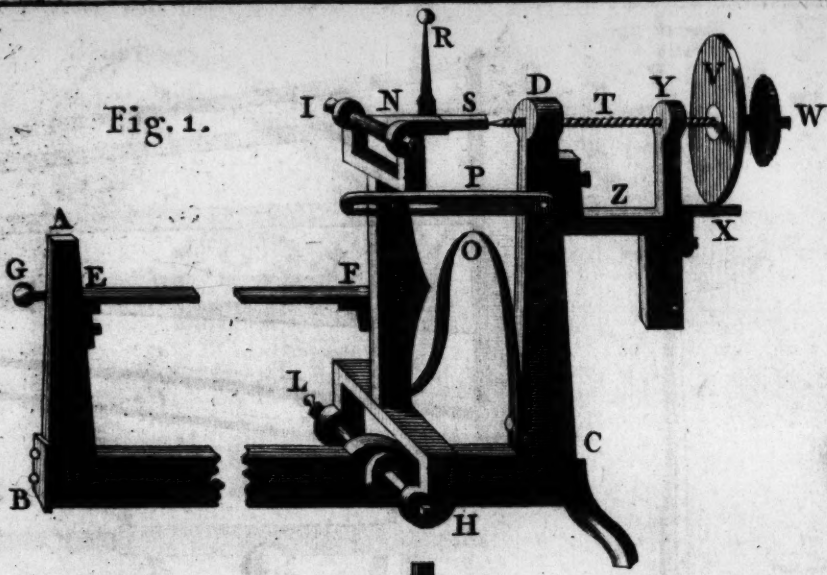


Fig. 2.

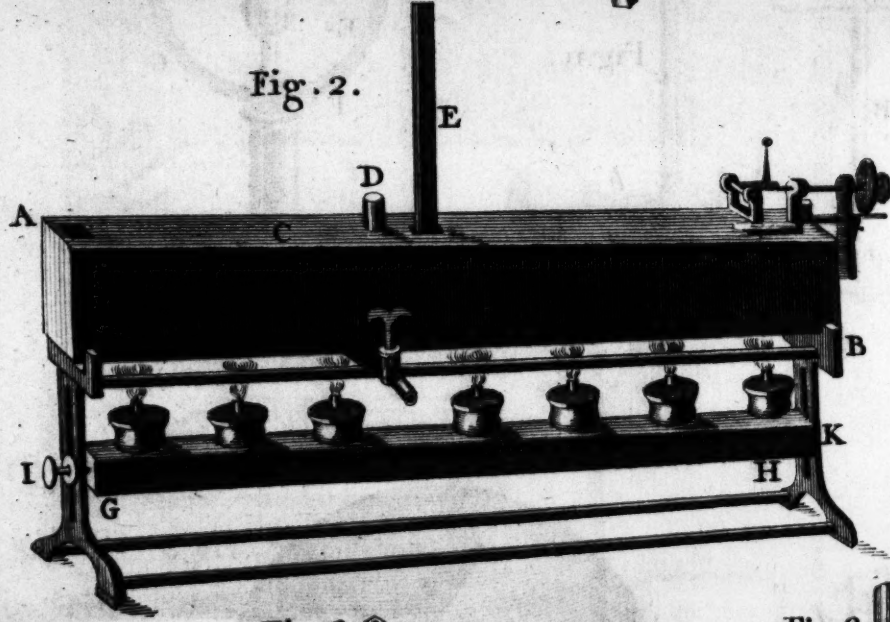


Fig. 10.



Fig. 12.

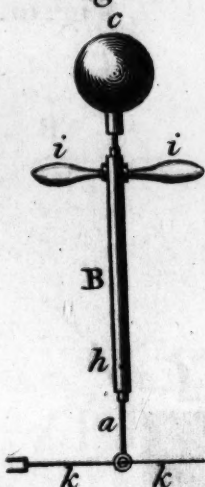


Fig. n.

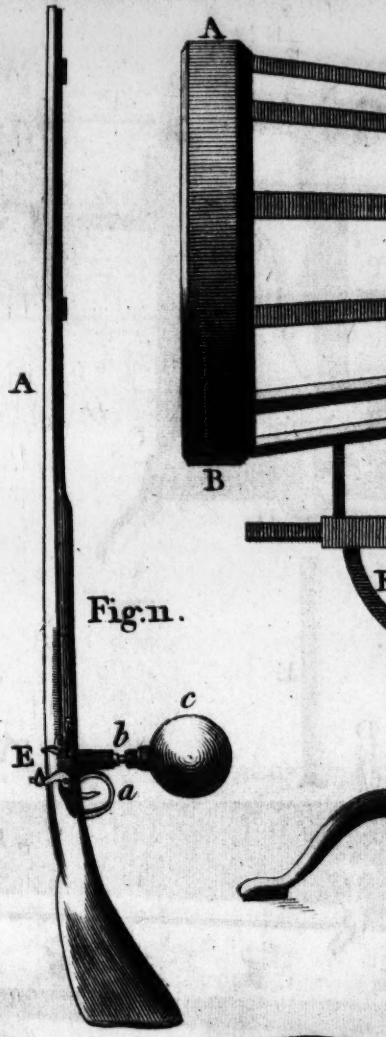


Fig. 3.

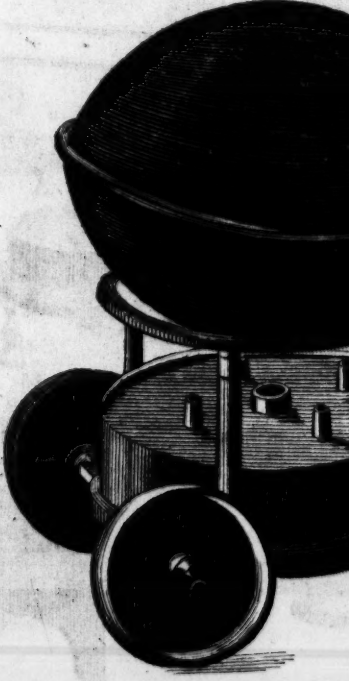
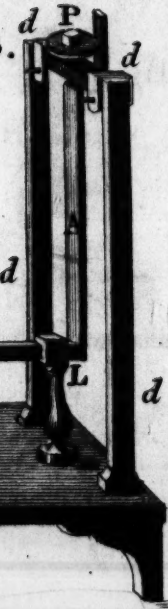
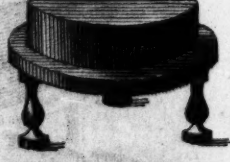
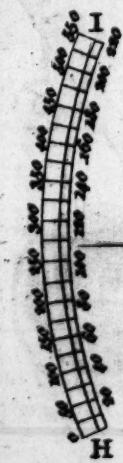
Fig. 3. A

Fig. 3.

Fig. 3.

Fig. 3.

Fig. 3. E



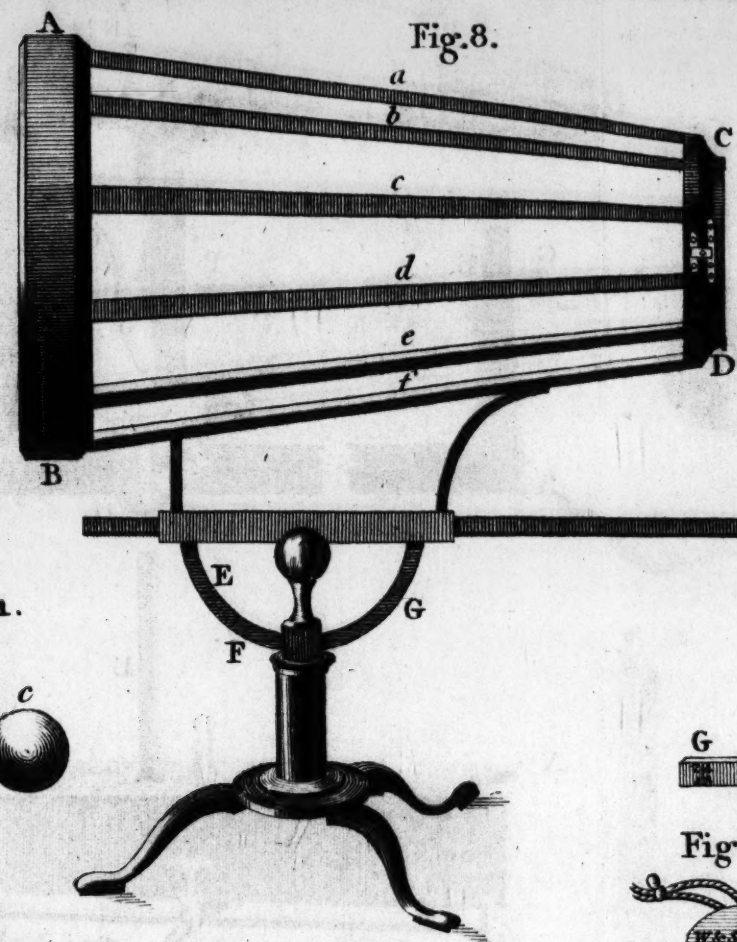


Fig. 9.

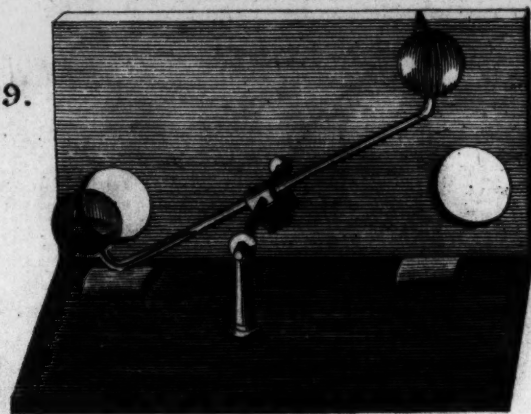


Fig. 7.



Fig. 6.



Fig. 4.

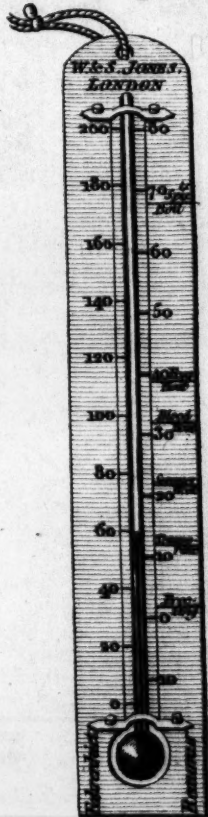
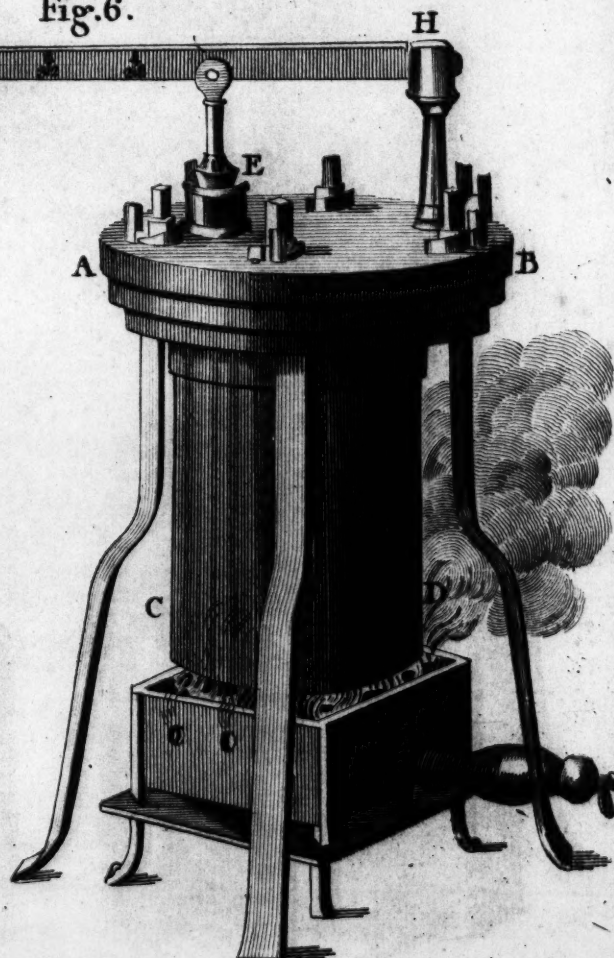
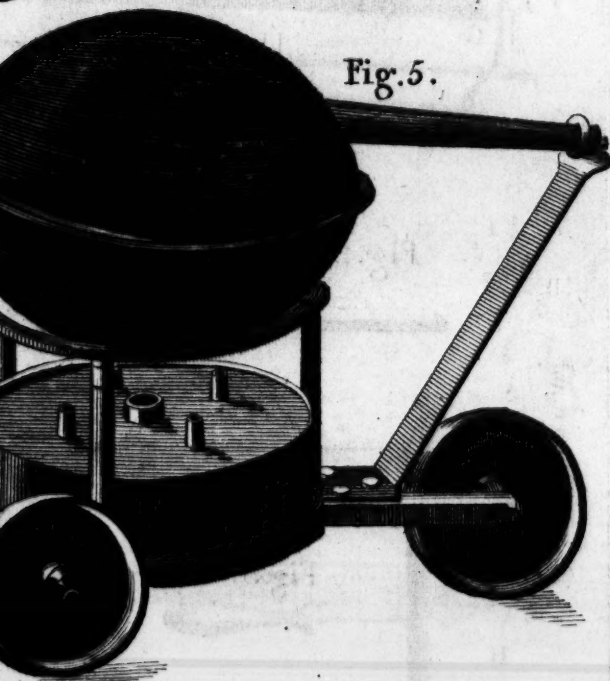


Fig. 5.



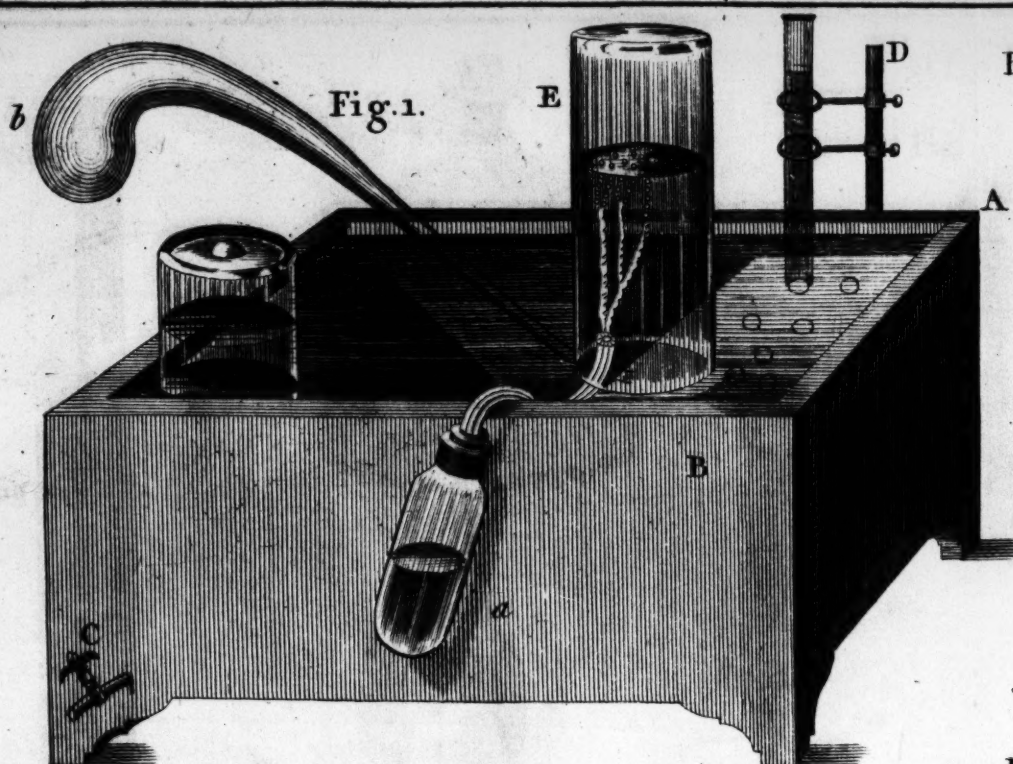


Fig. 9.

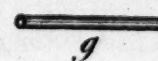
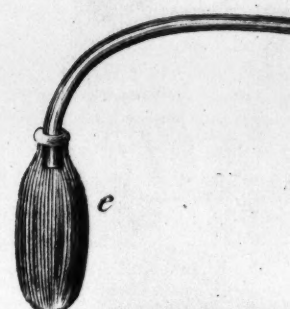
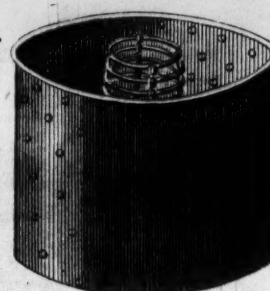


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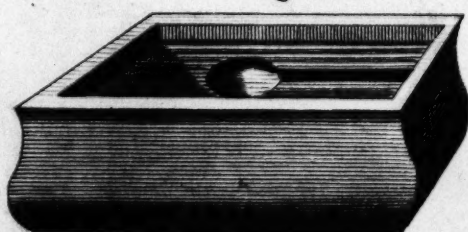


Fig. 14.



Fig. 4.

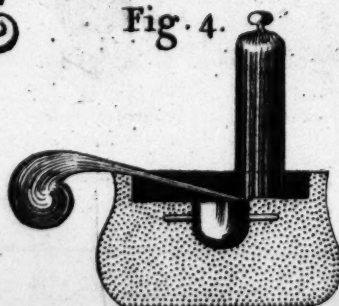


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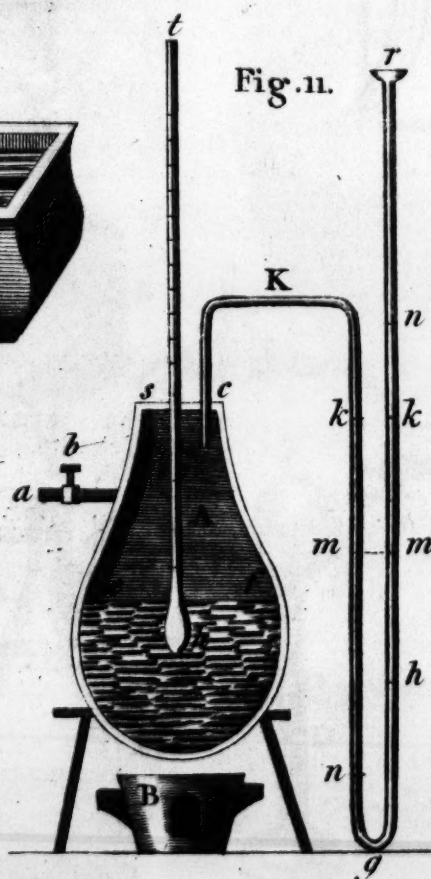


Fig. 5.



Fig. 13.



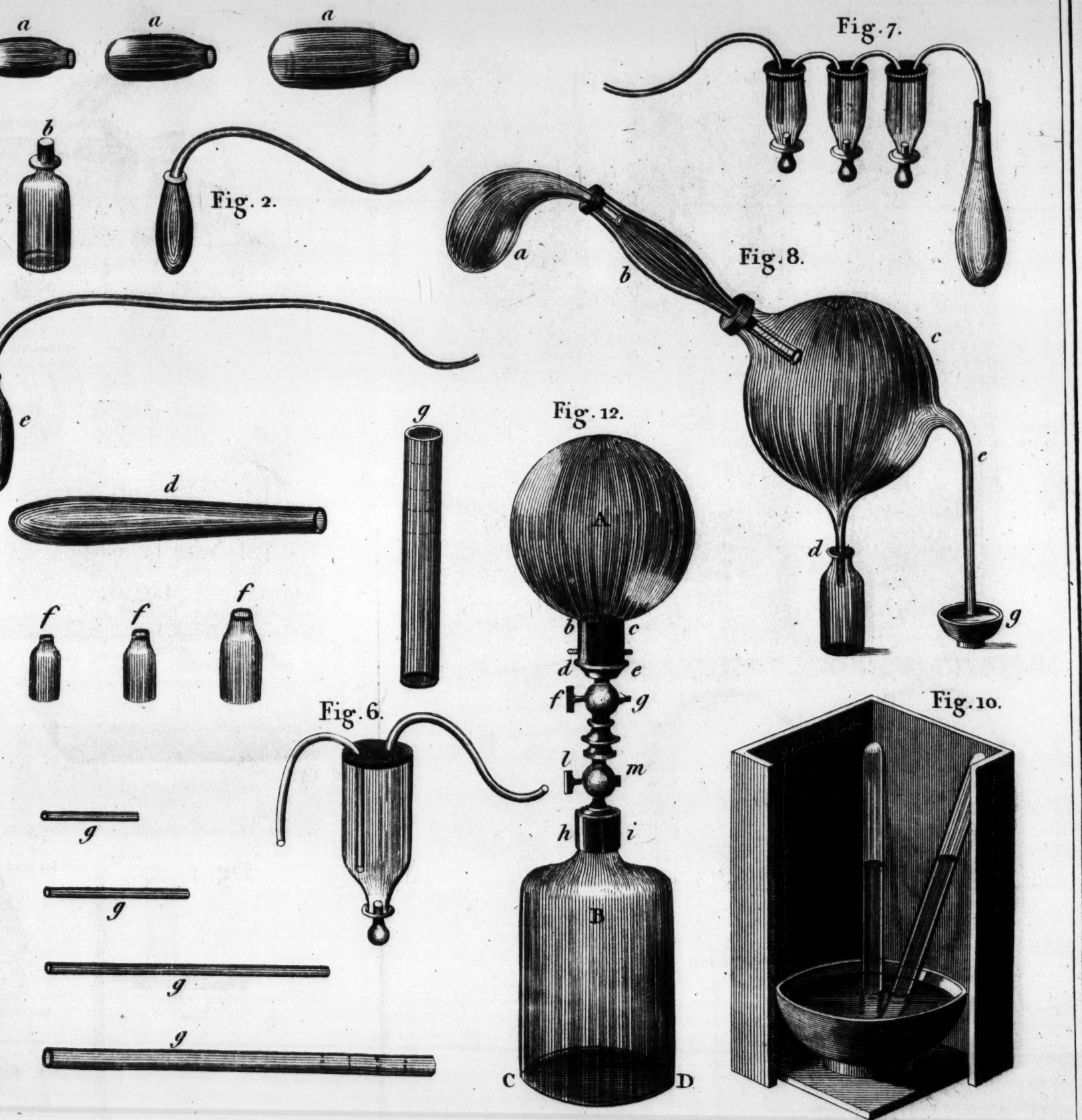




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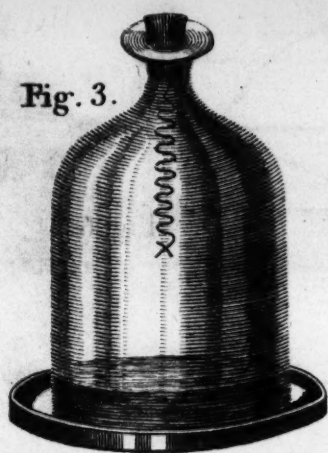


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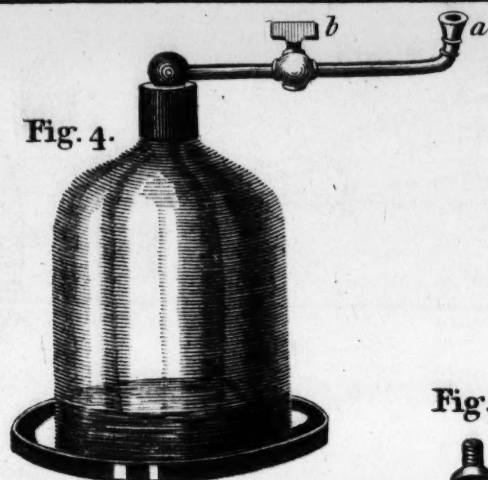


Fig. 4.

Fig. 12.



Fig. 10.



Fig. 11.



Fig. 5.



Fig. 9.

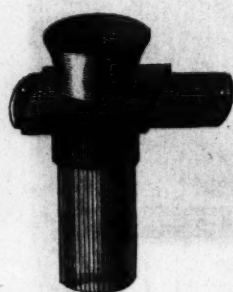


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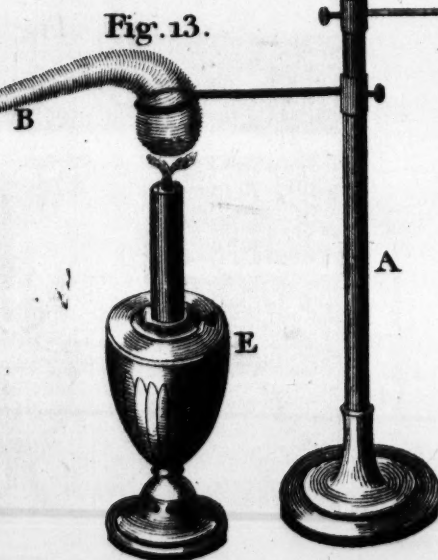


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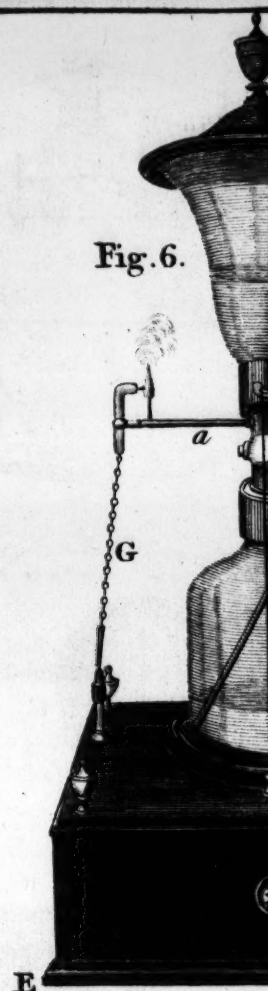
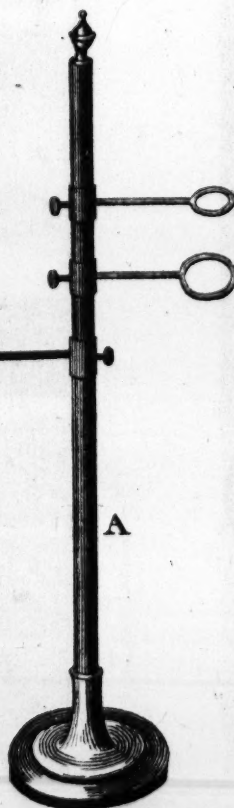
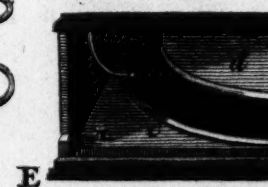


Fig. 6.



E

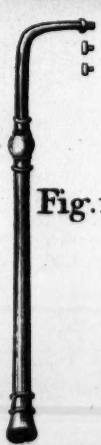


Fig.

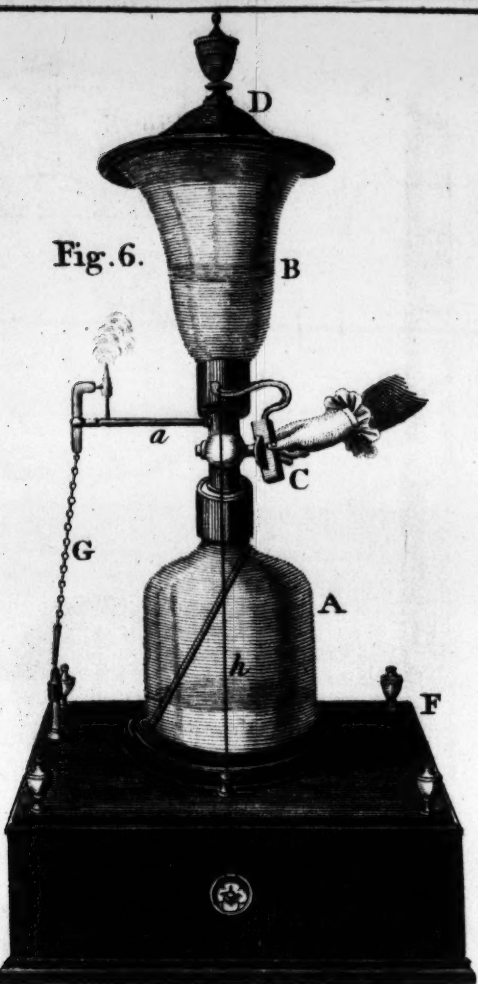


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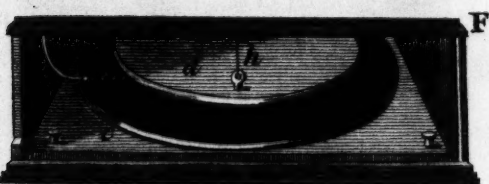
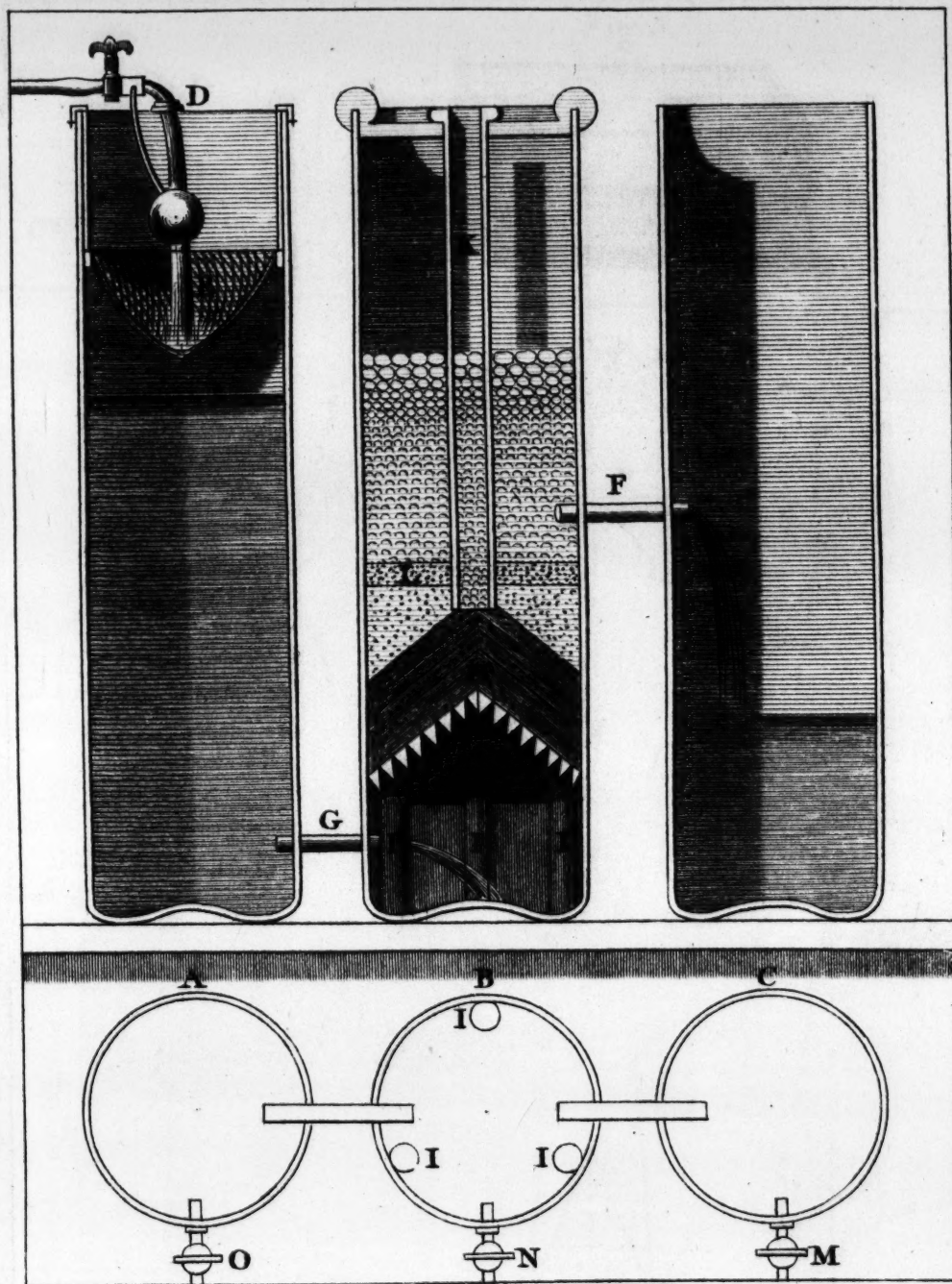
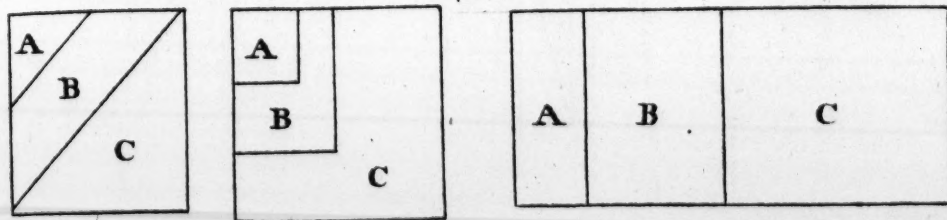
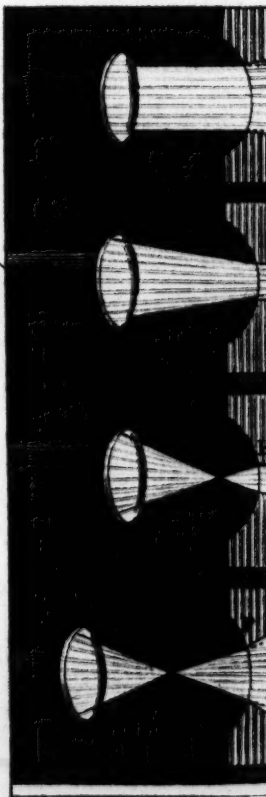
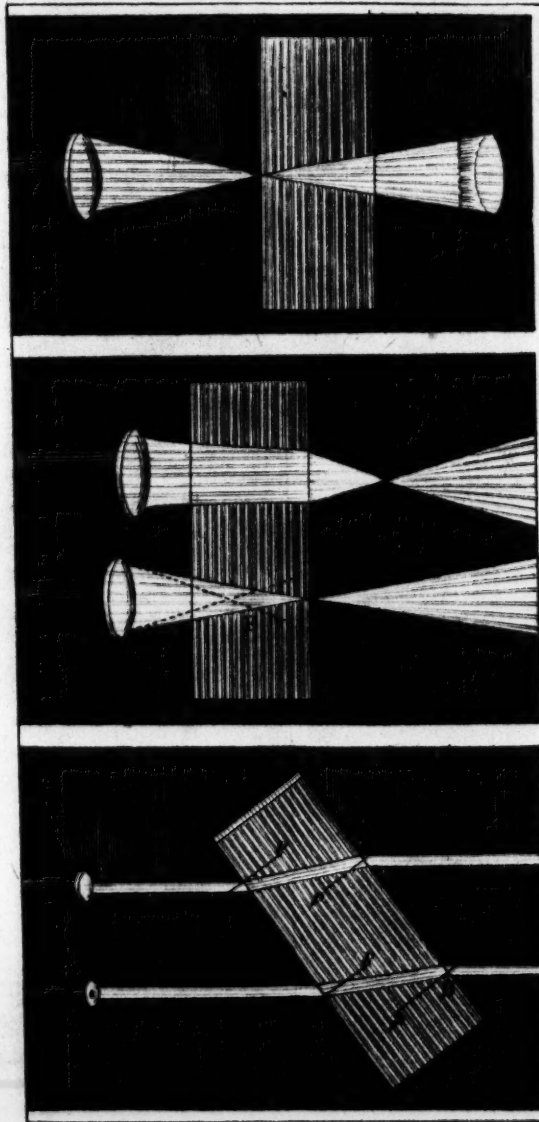
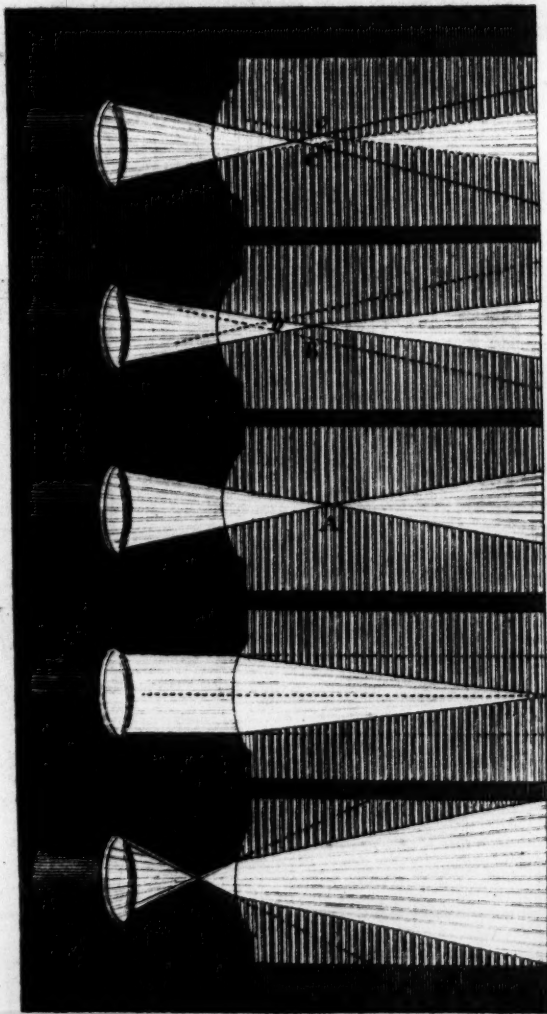
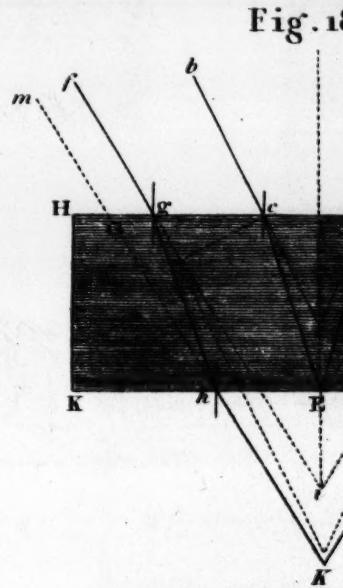
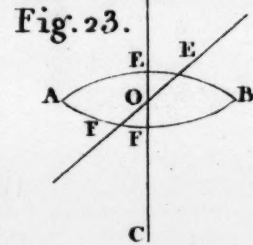
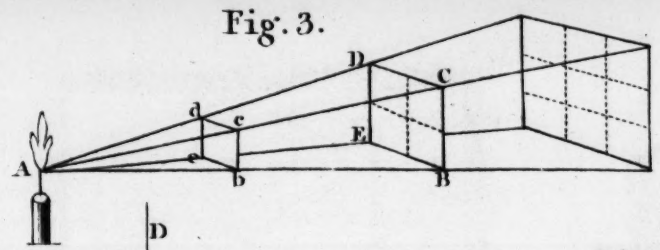
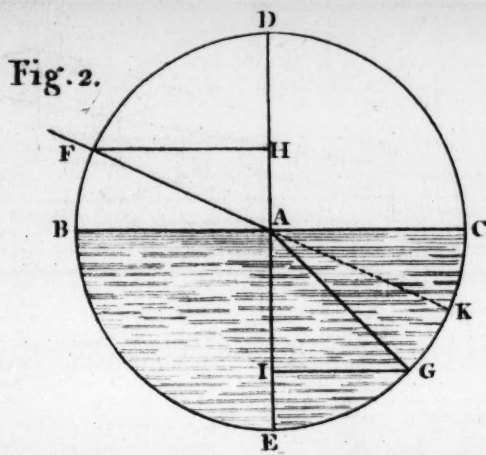
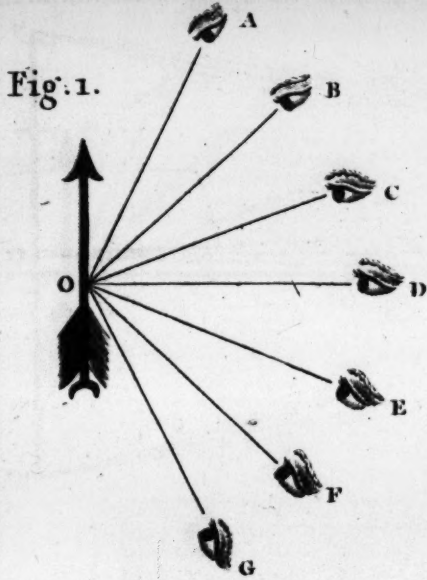


Fig. 8.





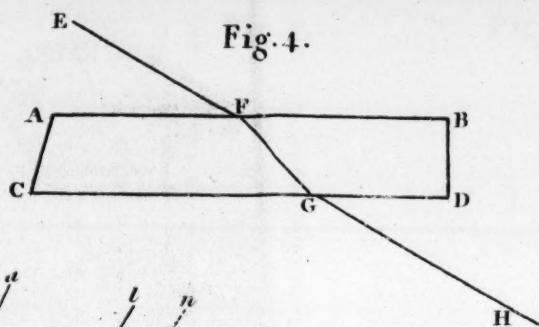
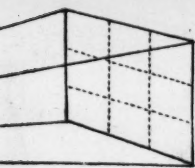


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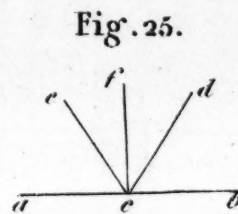
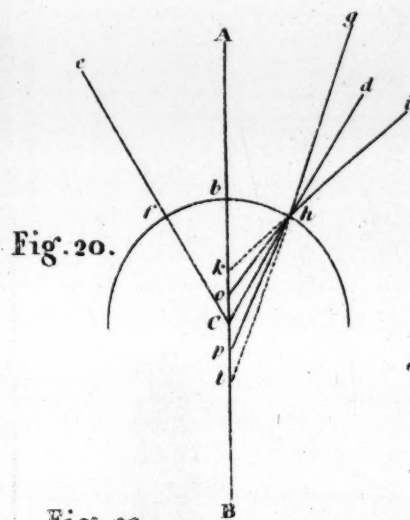
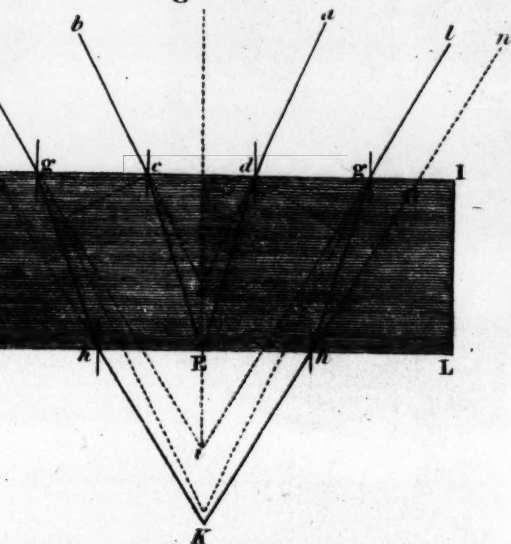


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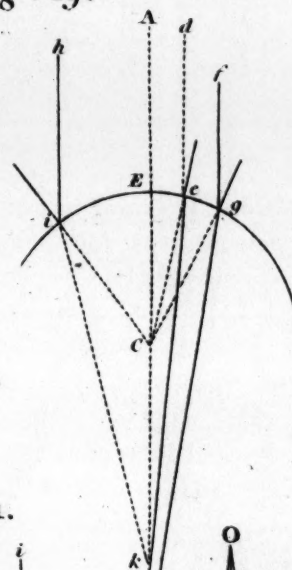


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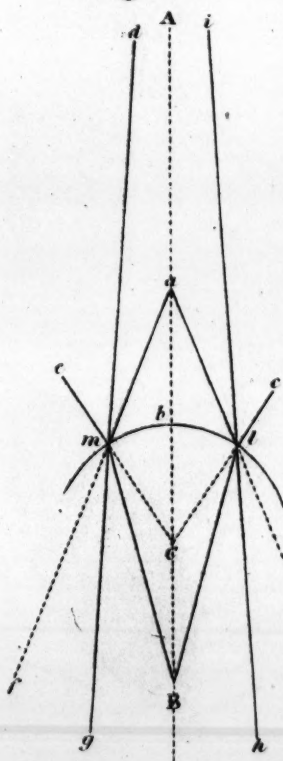


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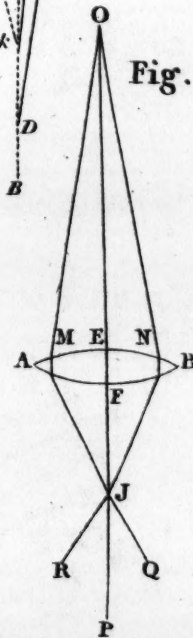
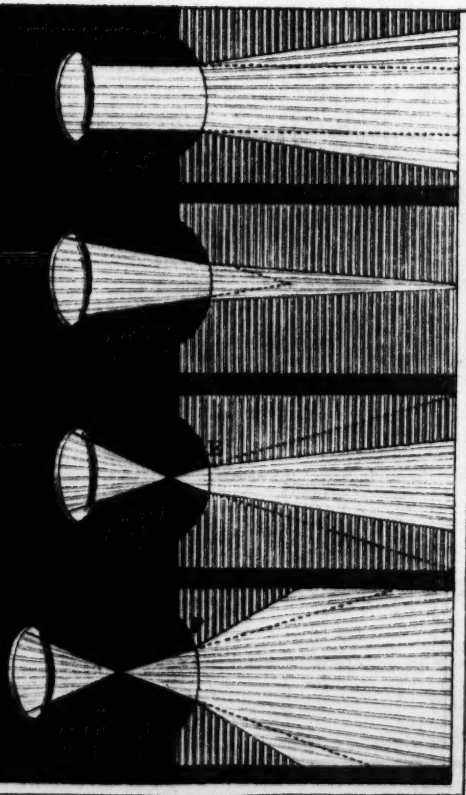
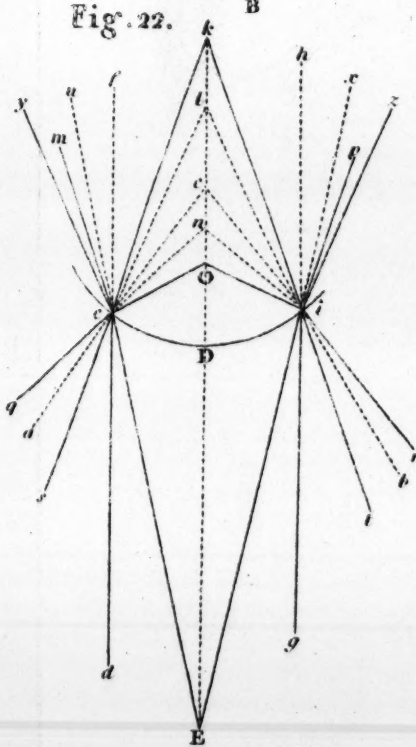
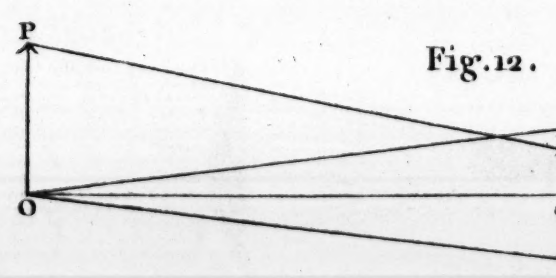
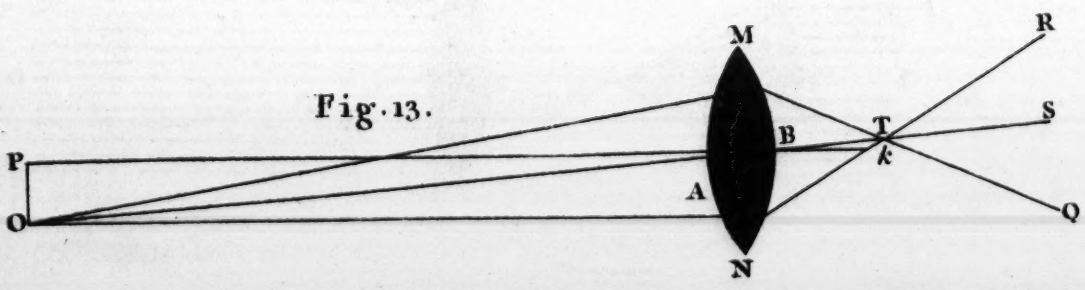
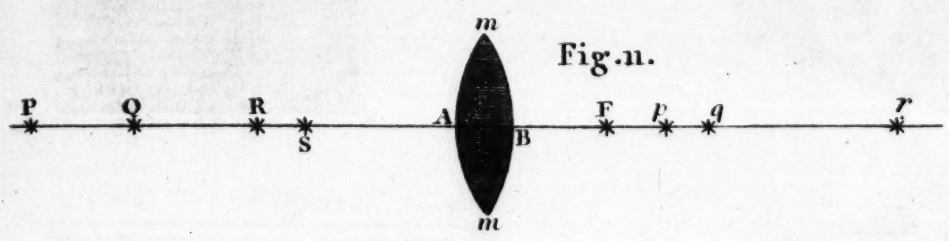
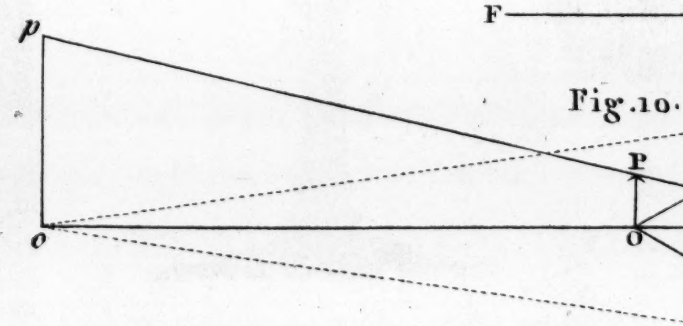
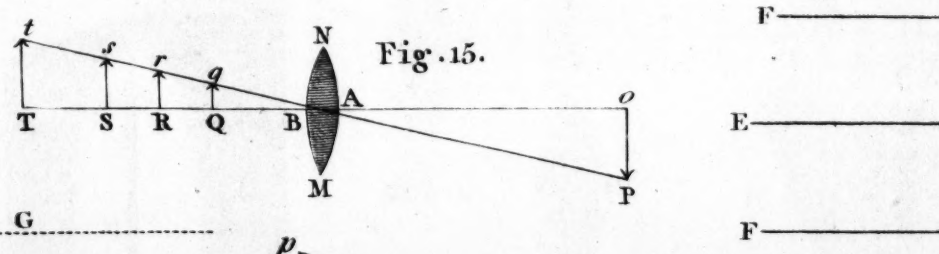
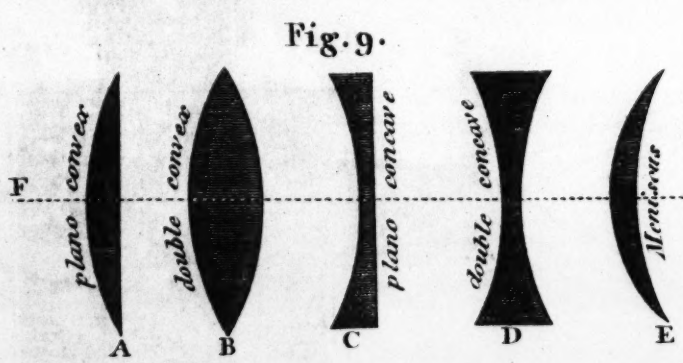
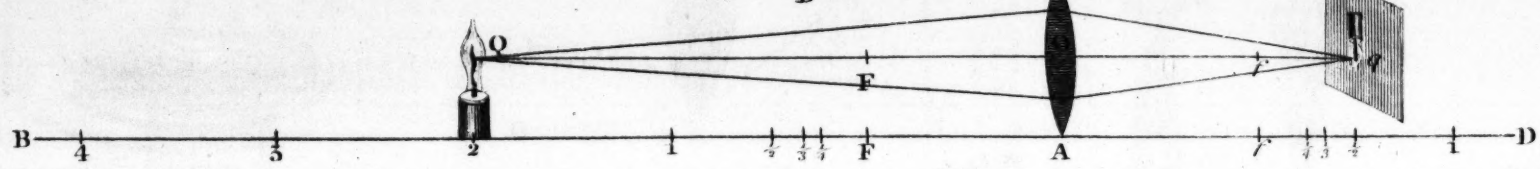
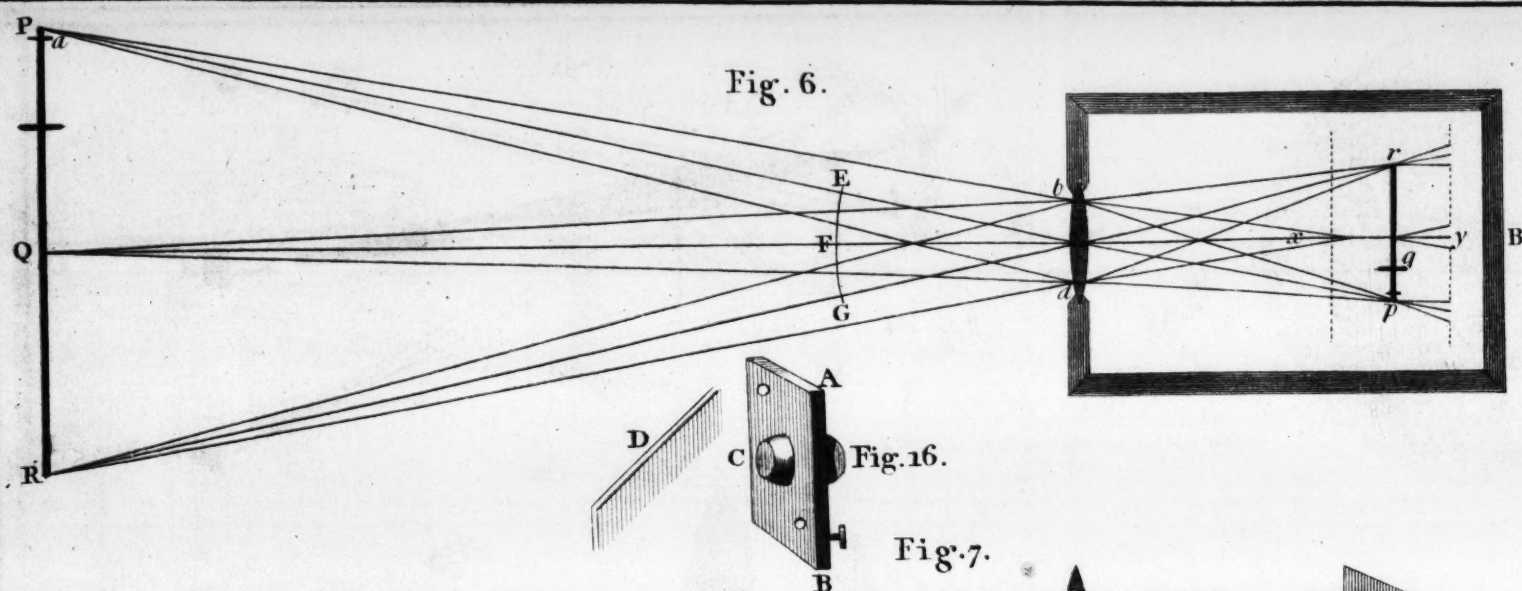
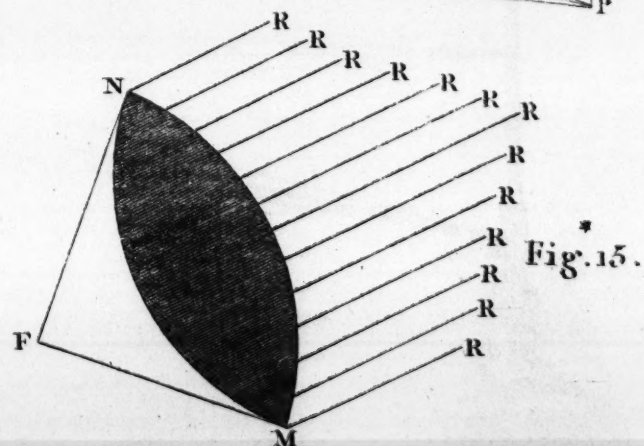
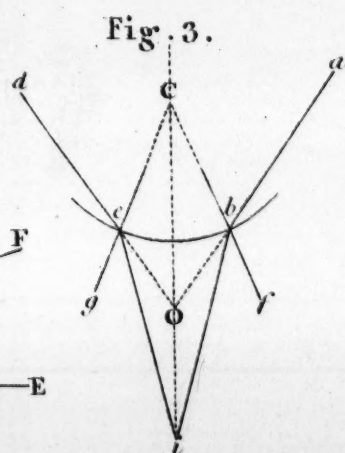
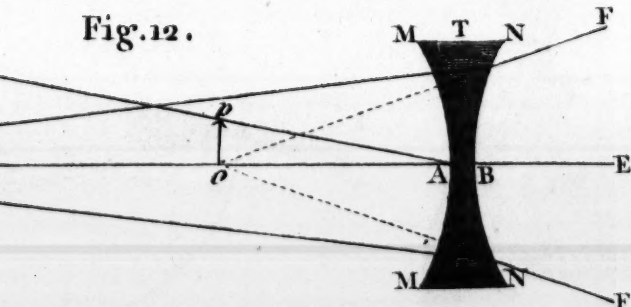
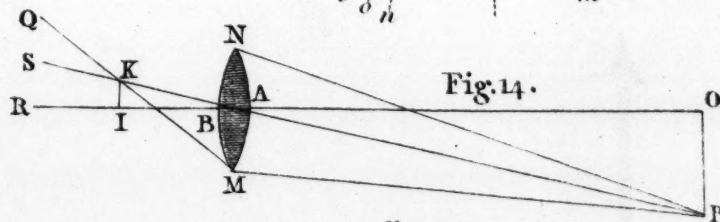
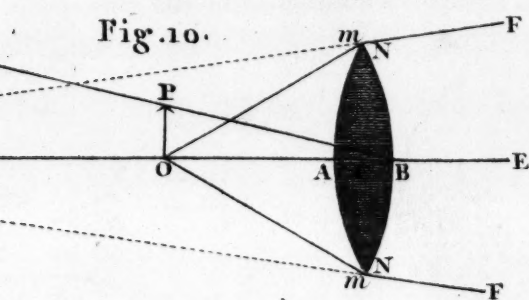
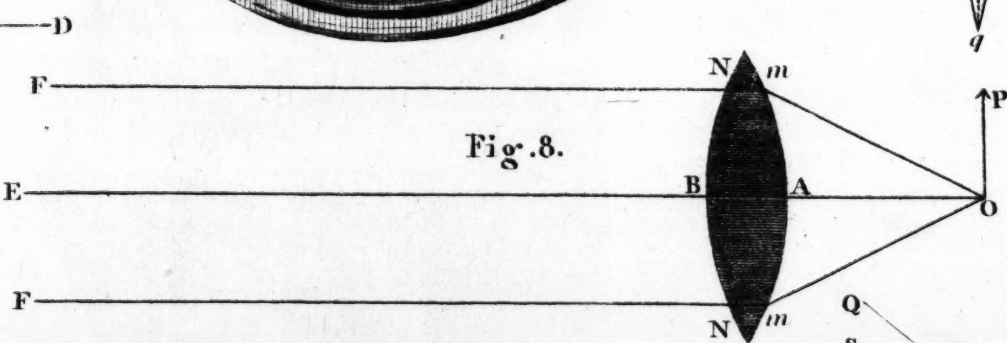
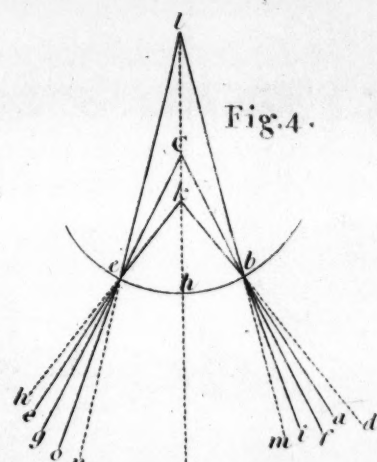
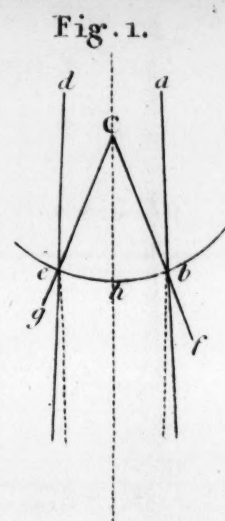
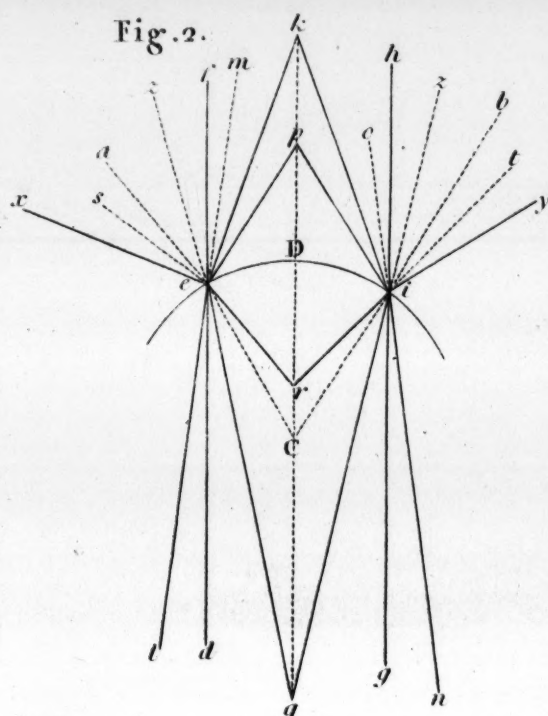
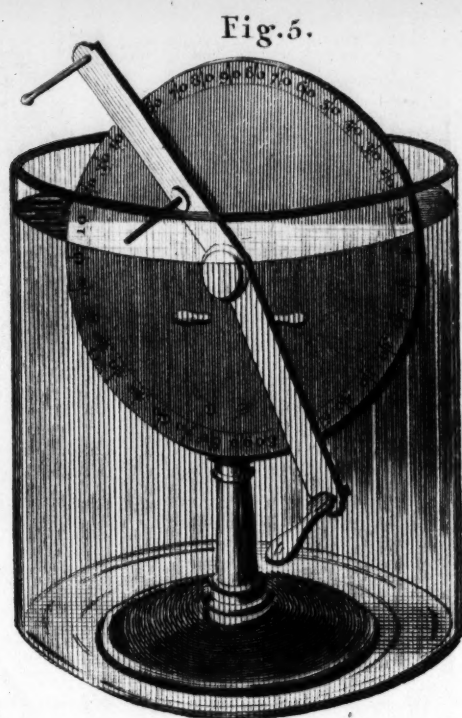


Fig. 22.







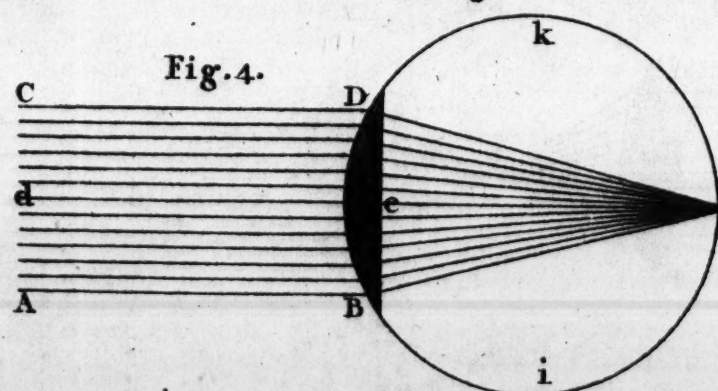
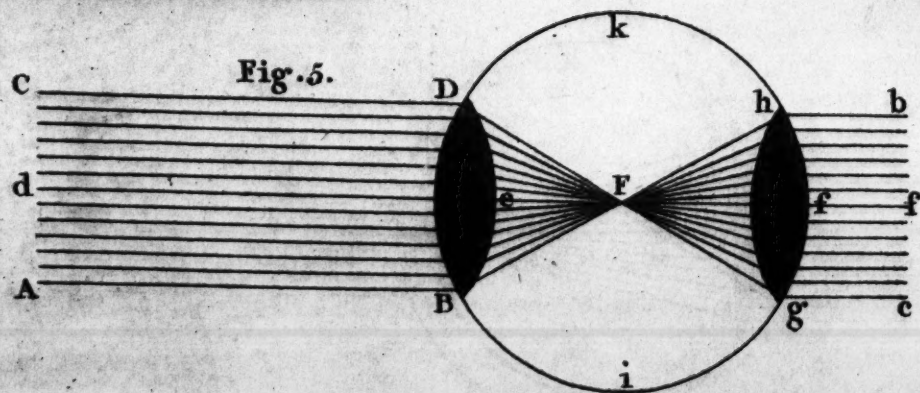
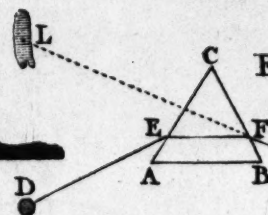
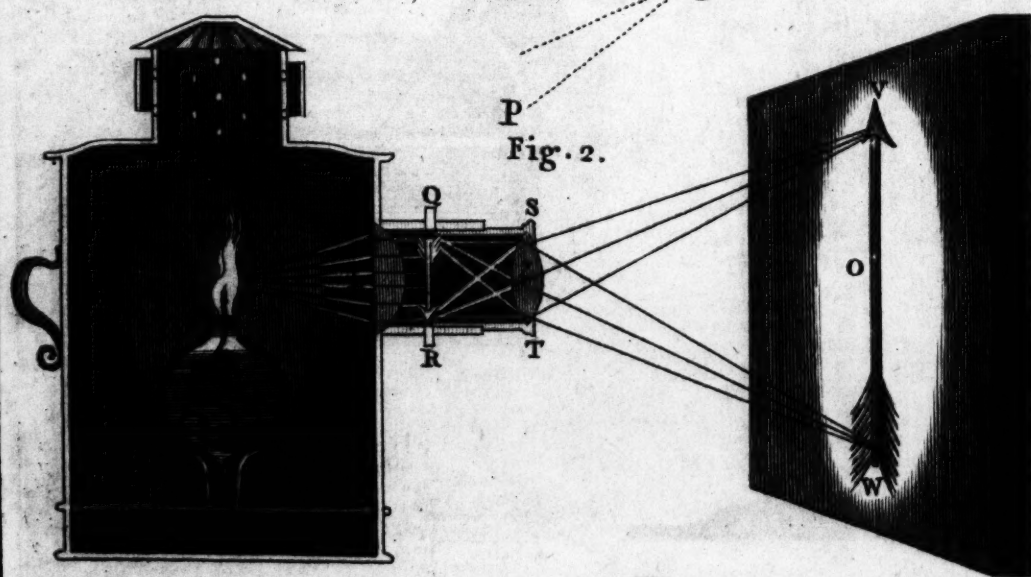
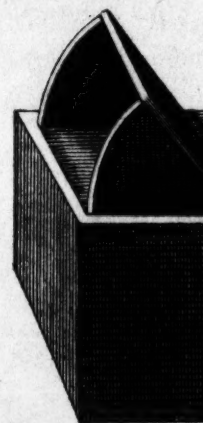
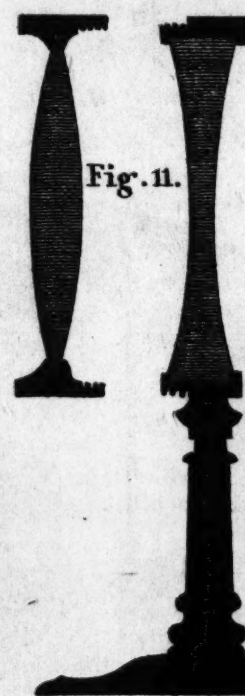
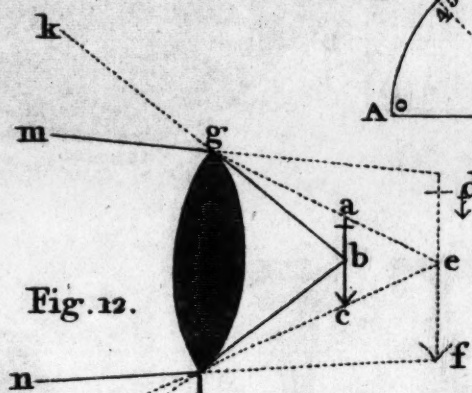
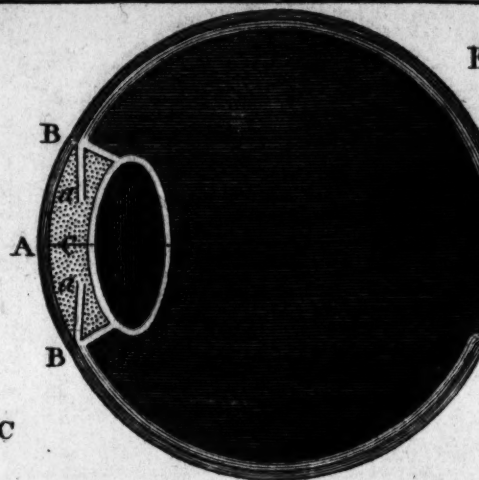
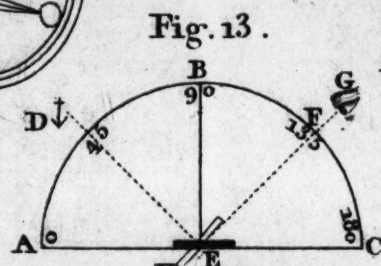
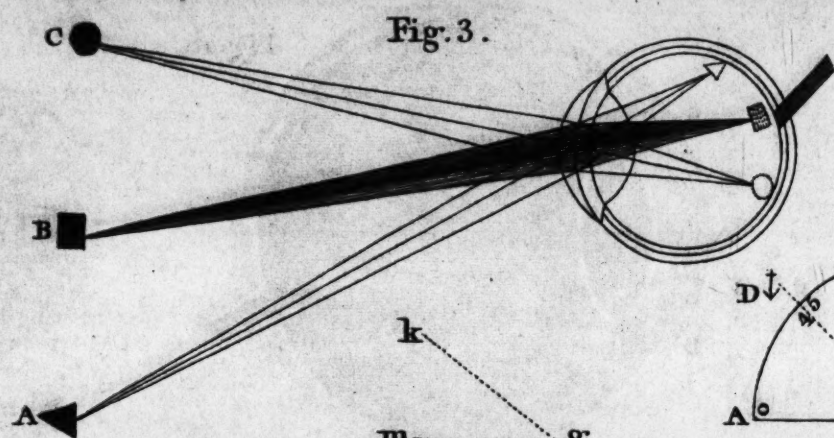




Fig. 10.



Fig. 8.

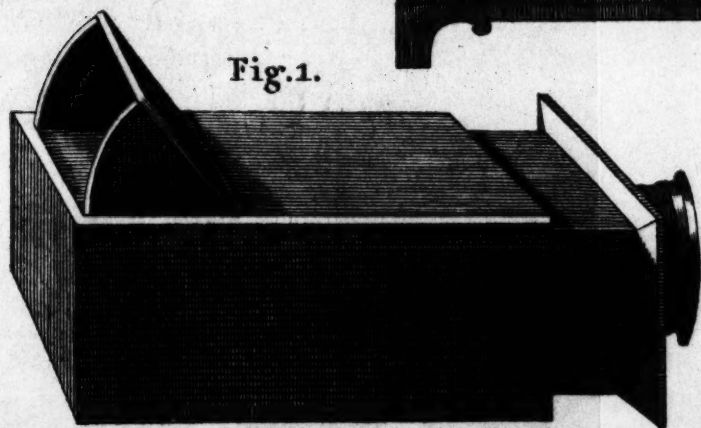
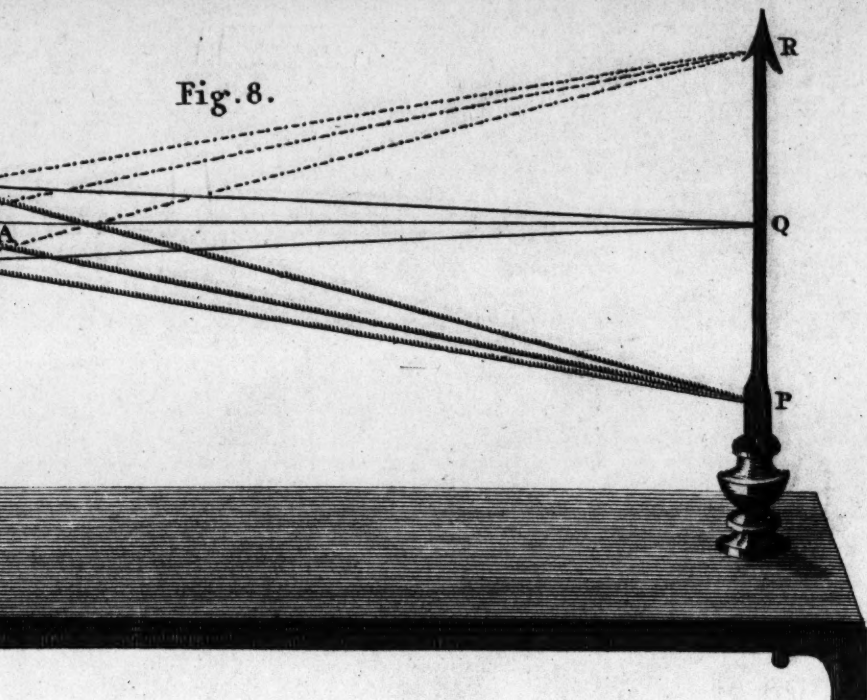


Fig. 1.

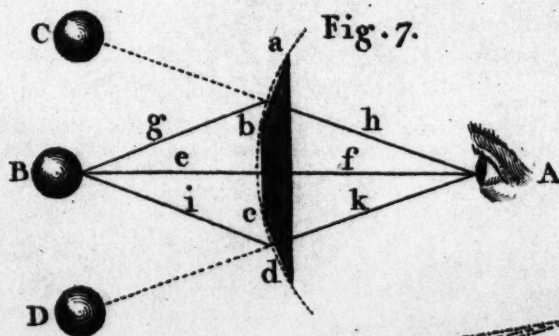


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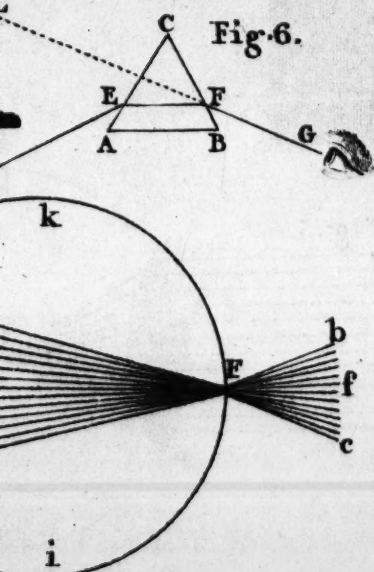
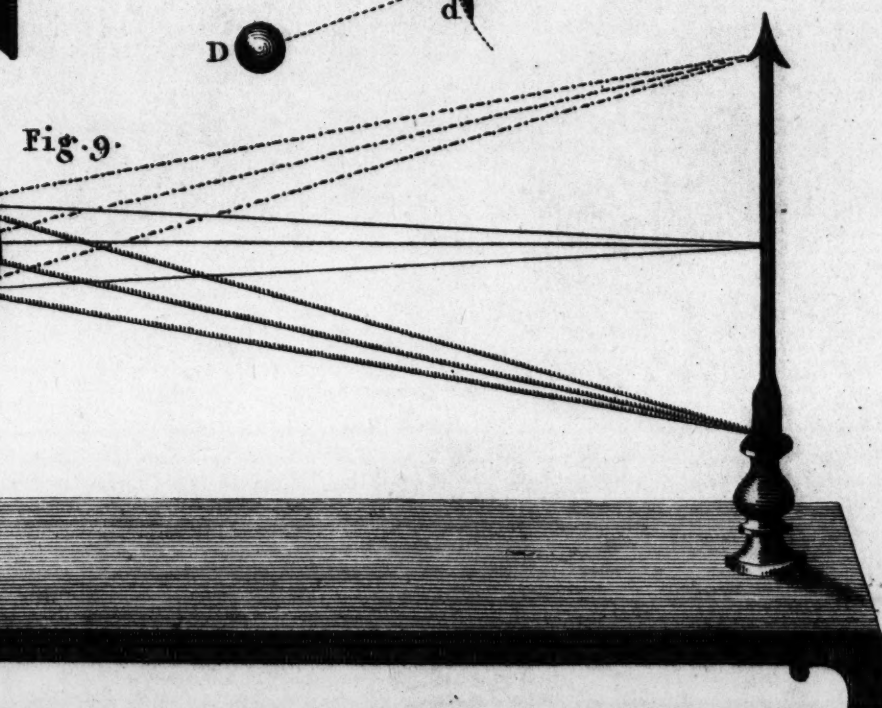
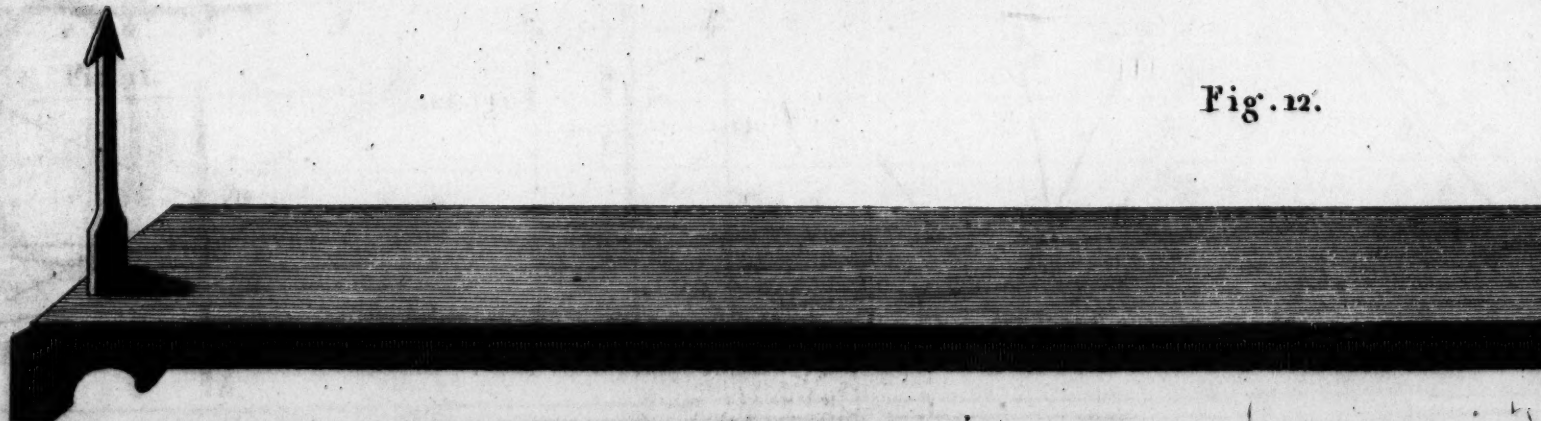
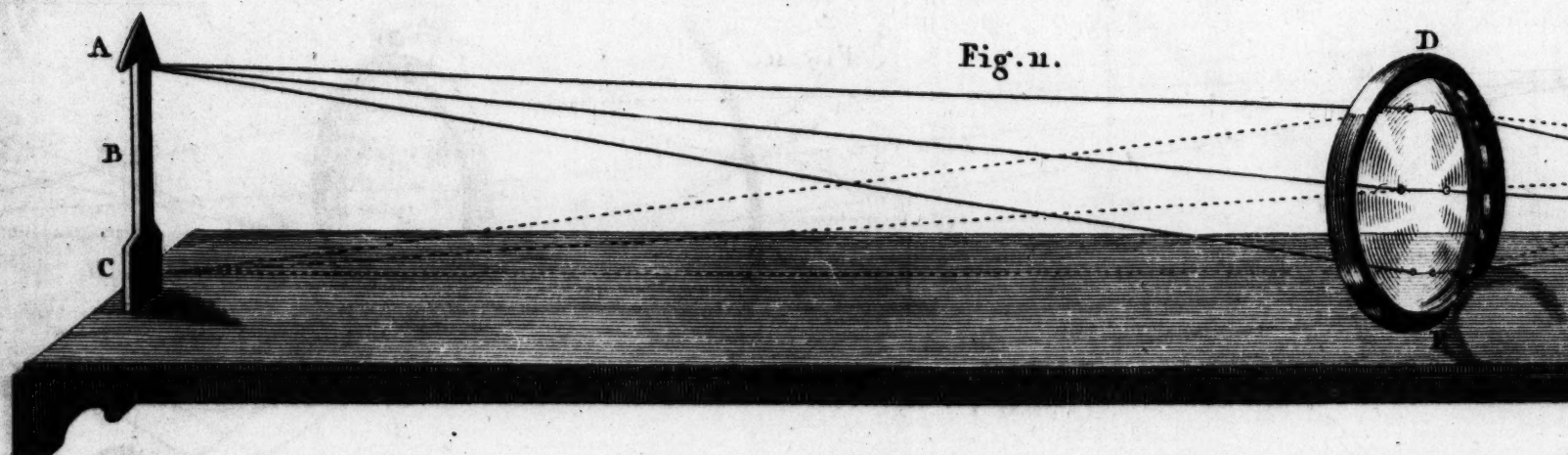
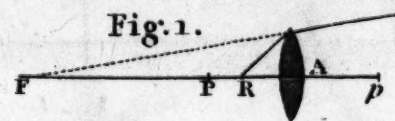
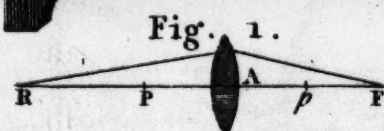
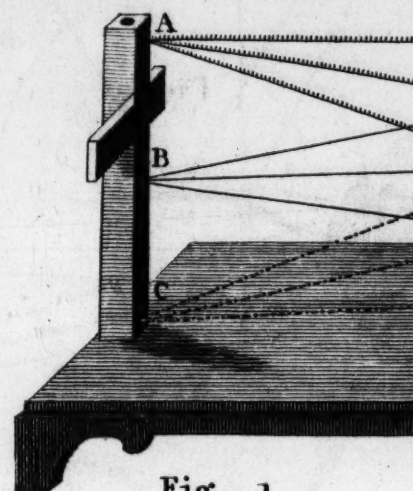
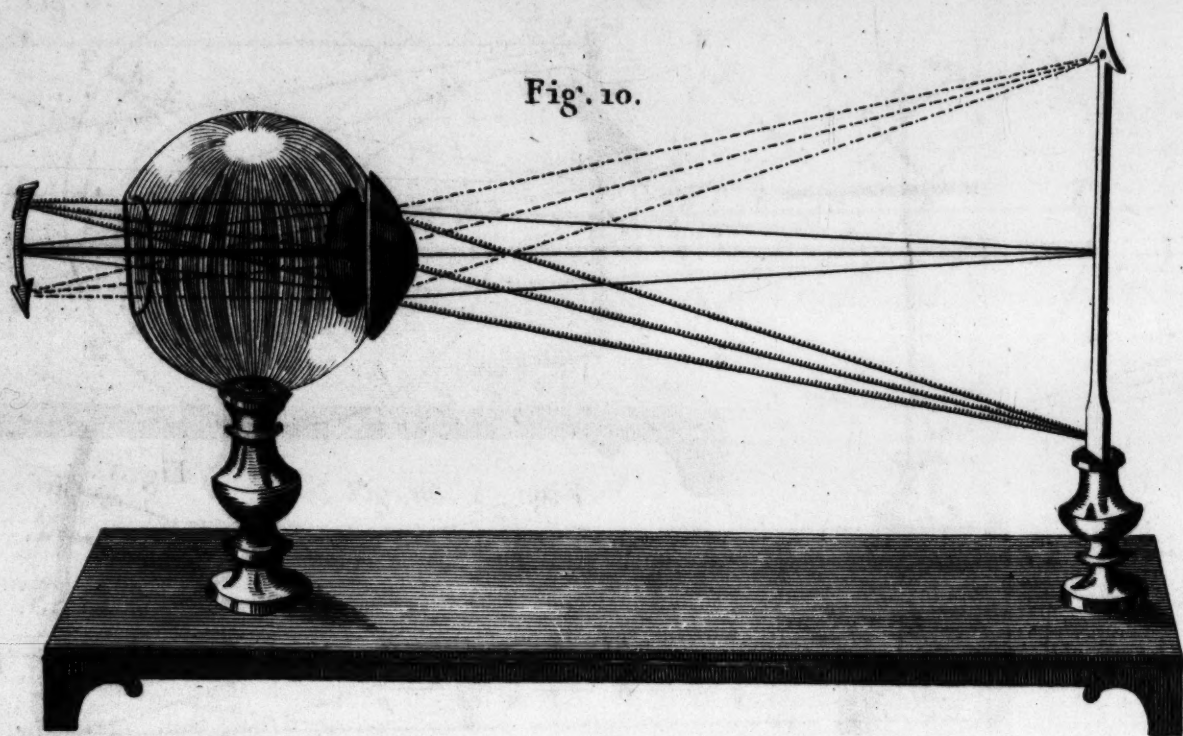


Fig. 6.



Fig. 9.





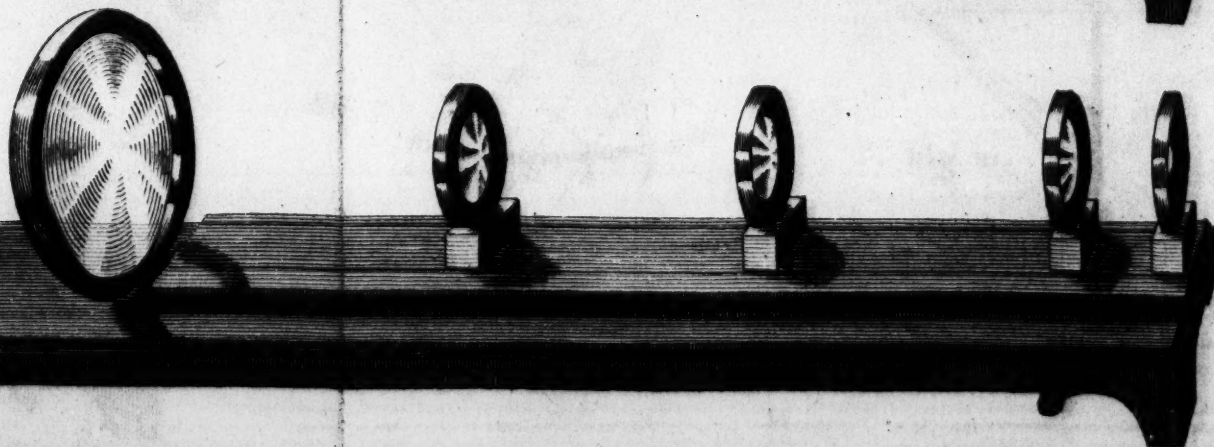
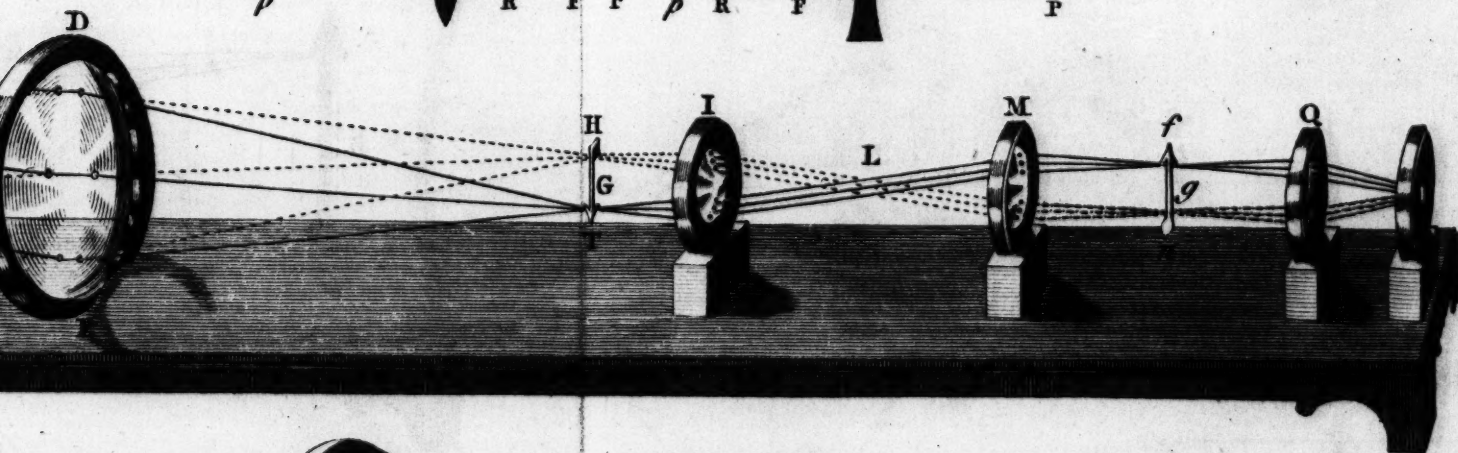
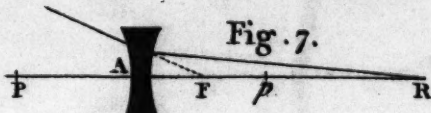
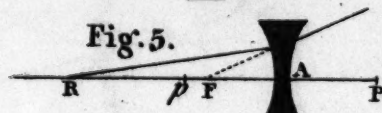
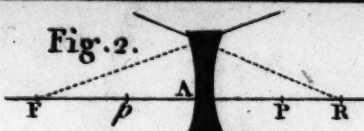
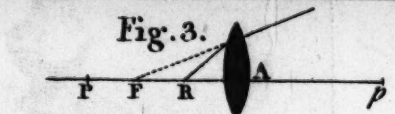
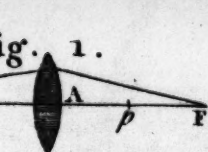
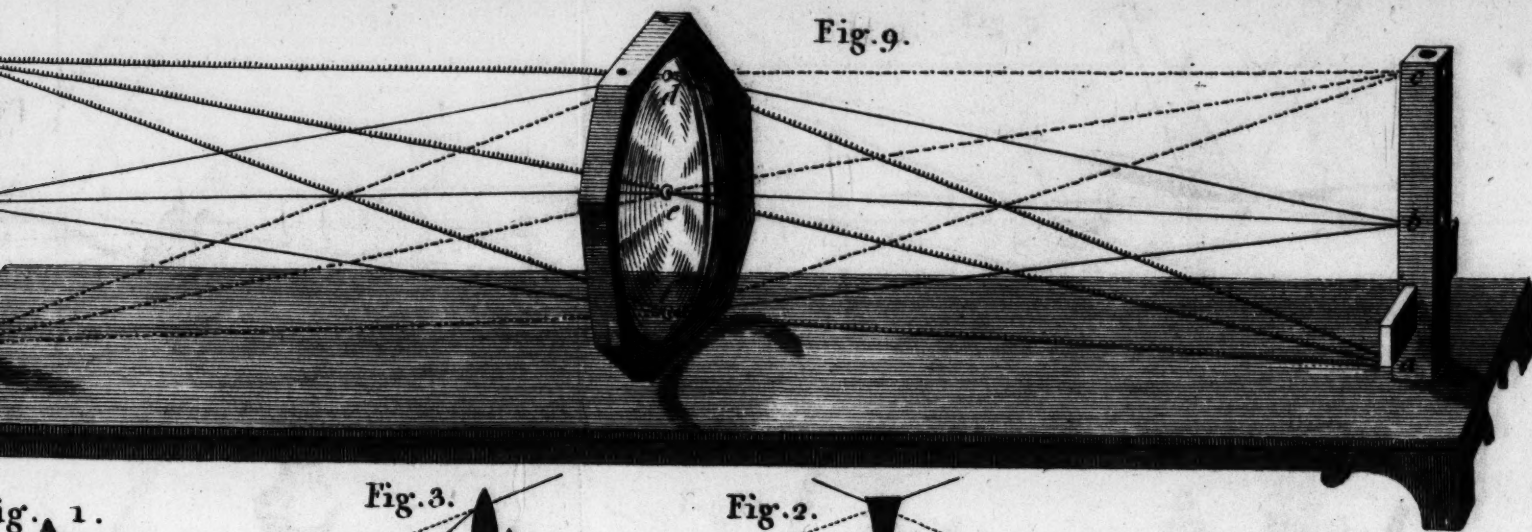


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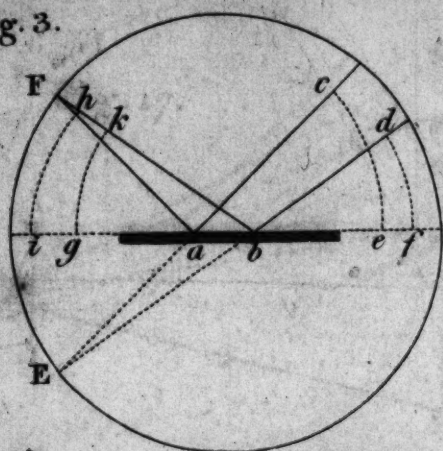


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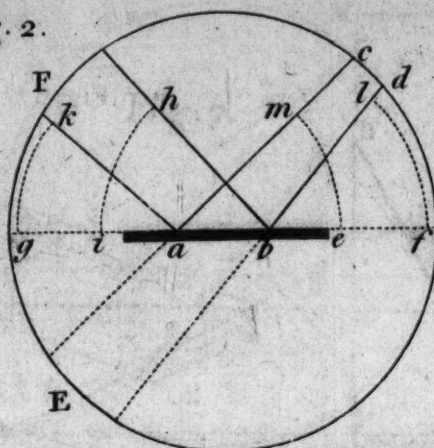


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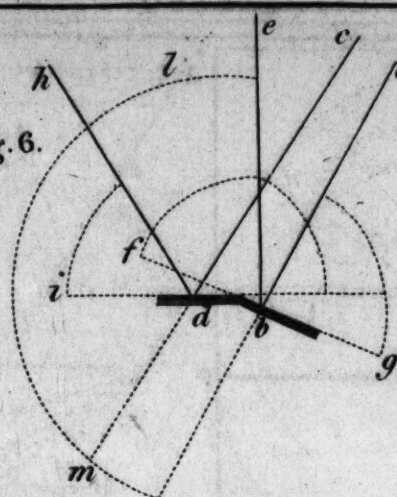


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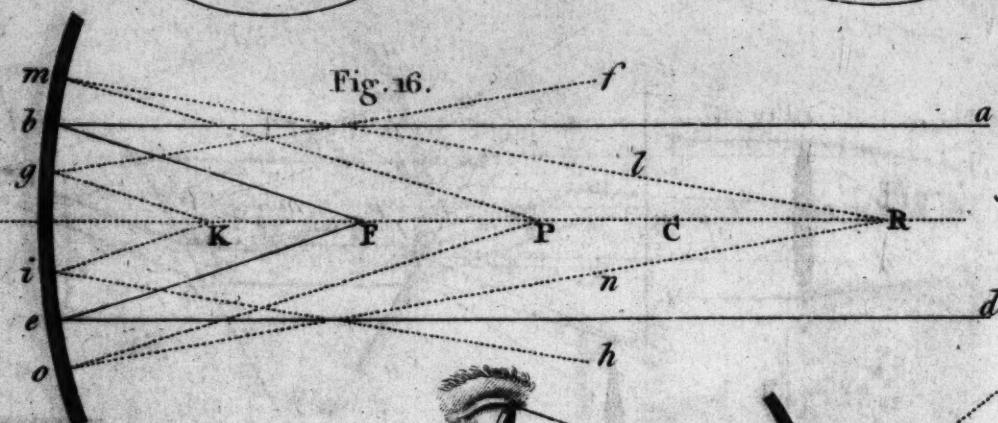


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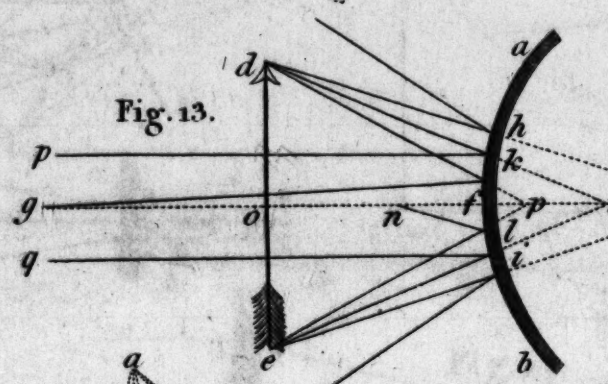


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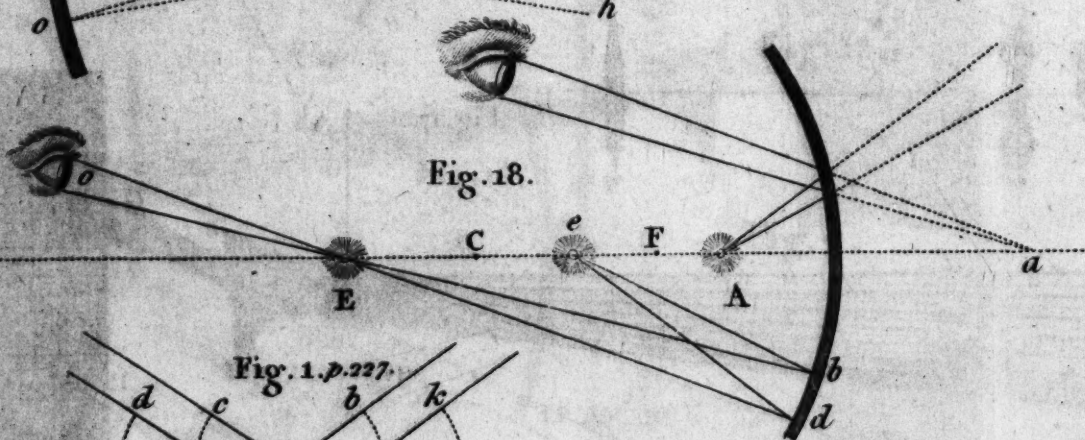


Fig. 1. p. 227.



Fig. 11.

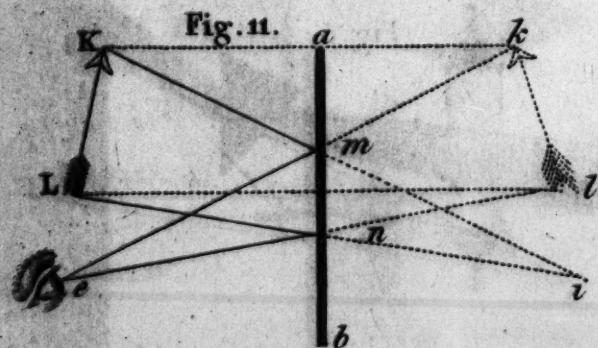


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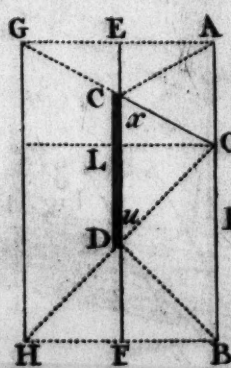


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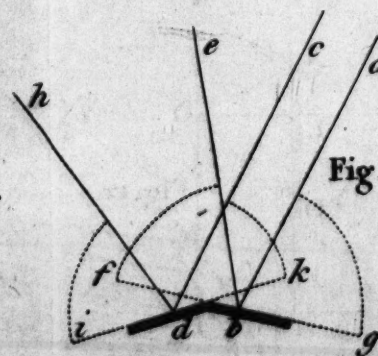
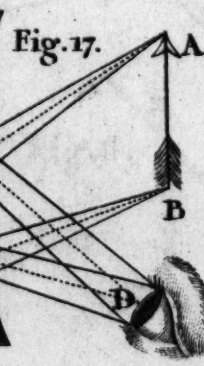
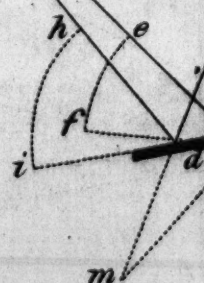


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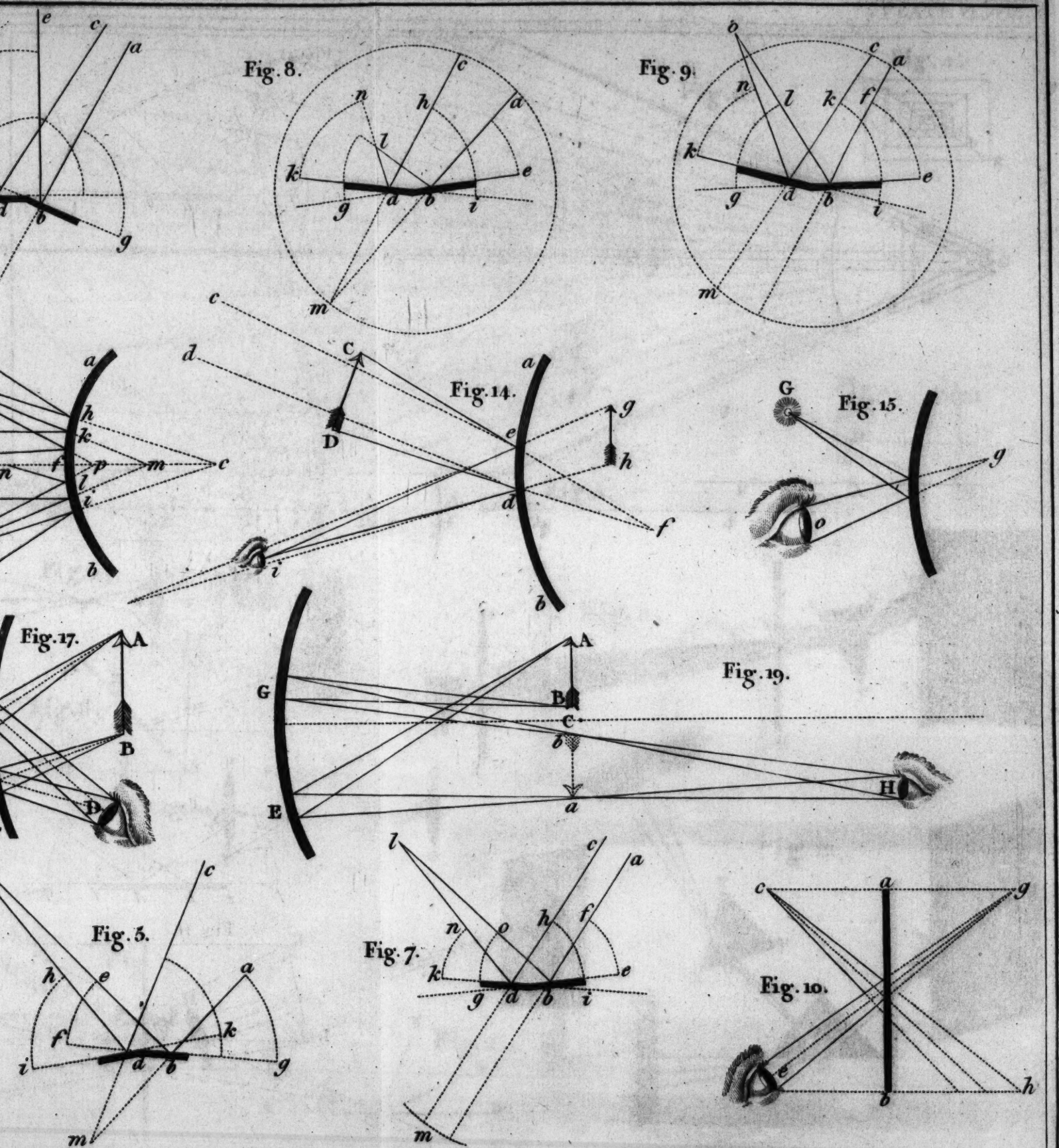


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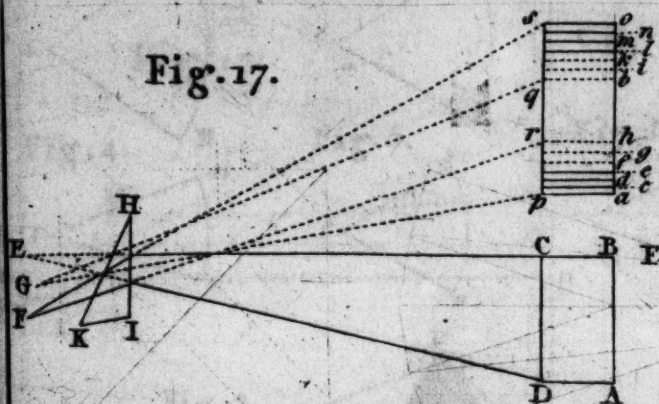


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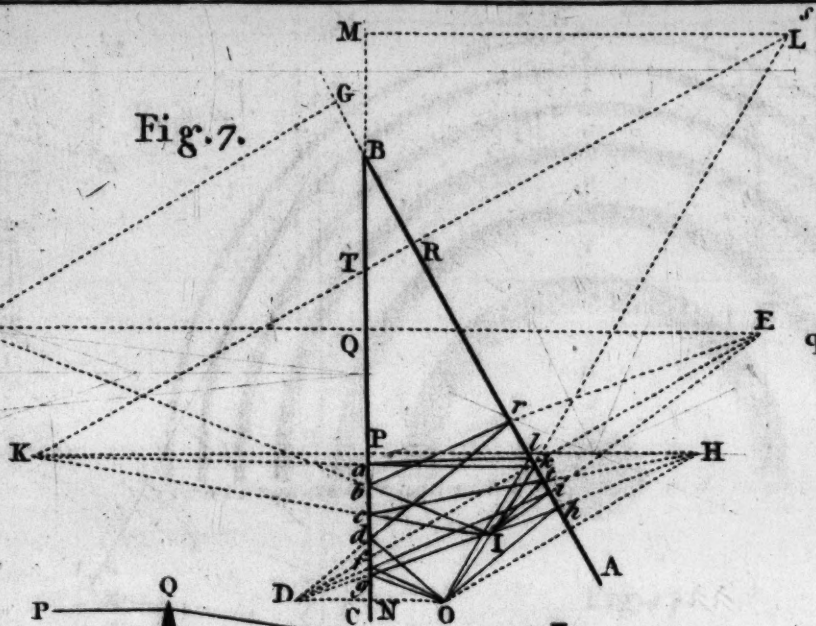


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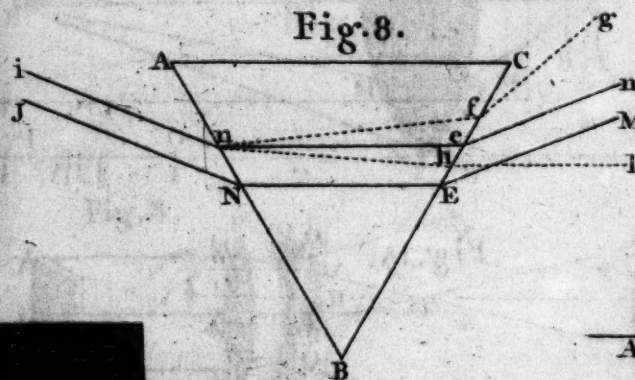


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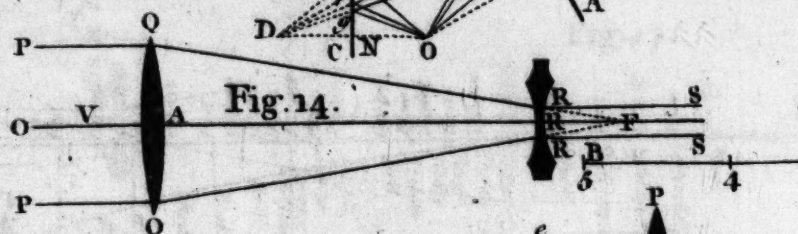


Fig. 13.*



Fig. 15.

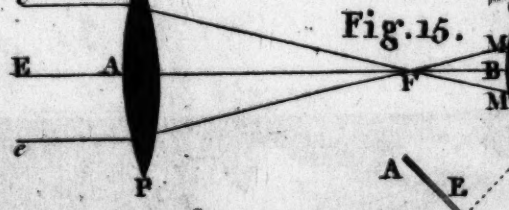


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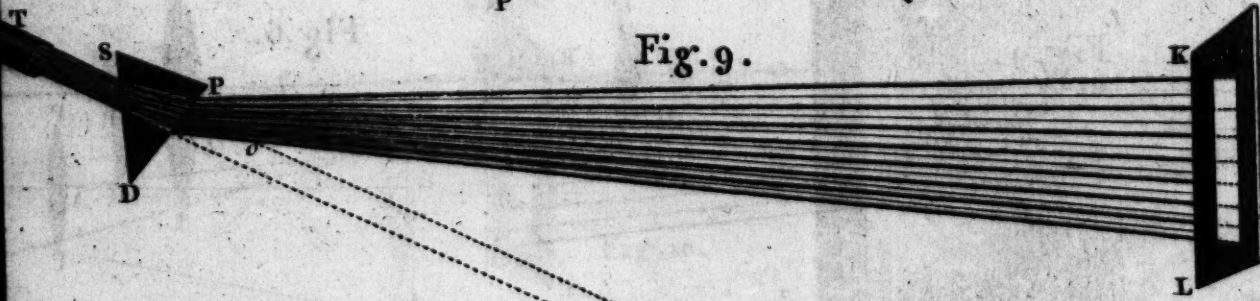


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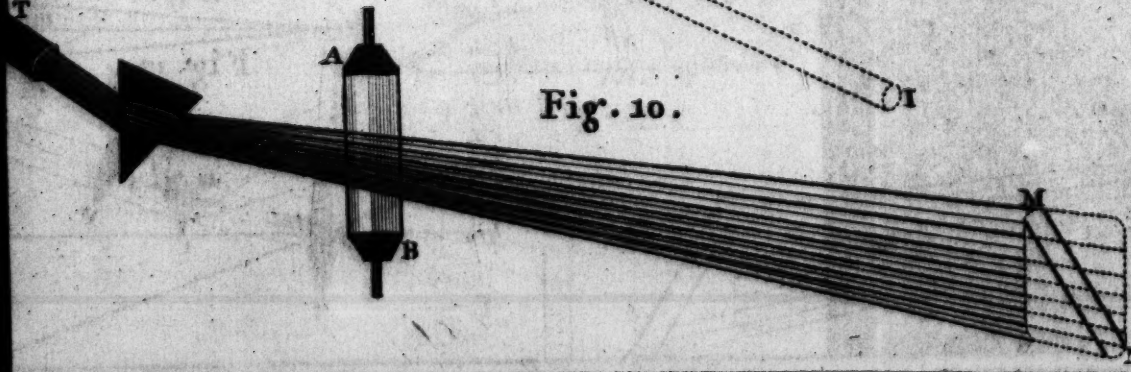


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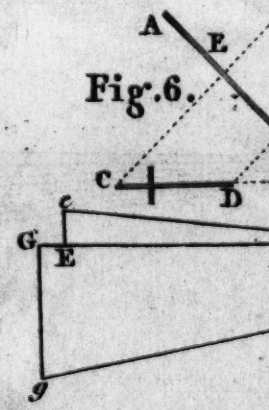
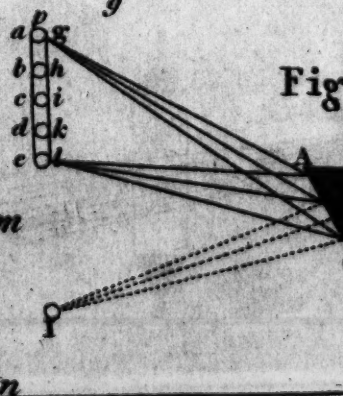
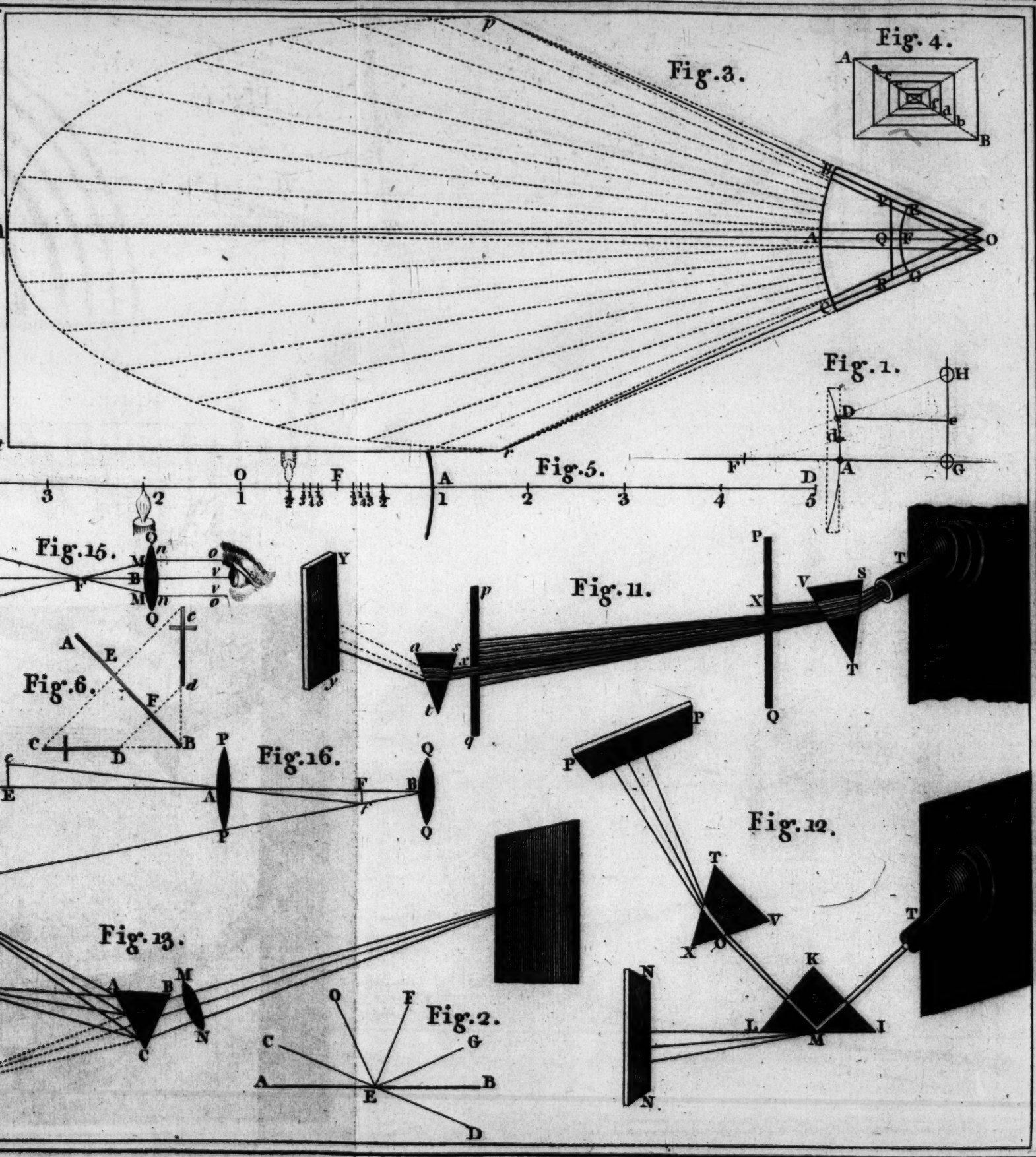
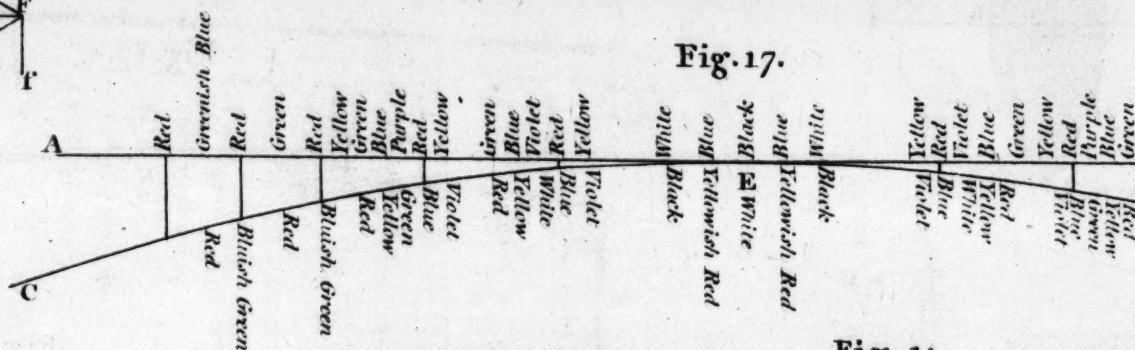
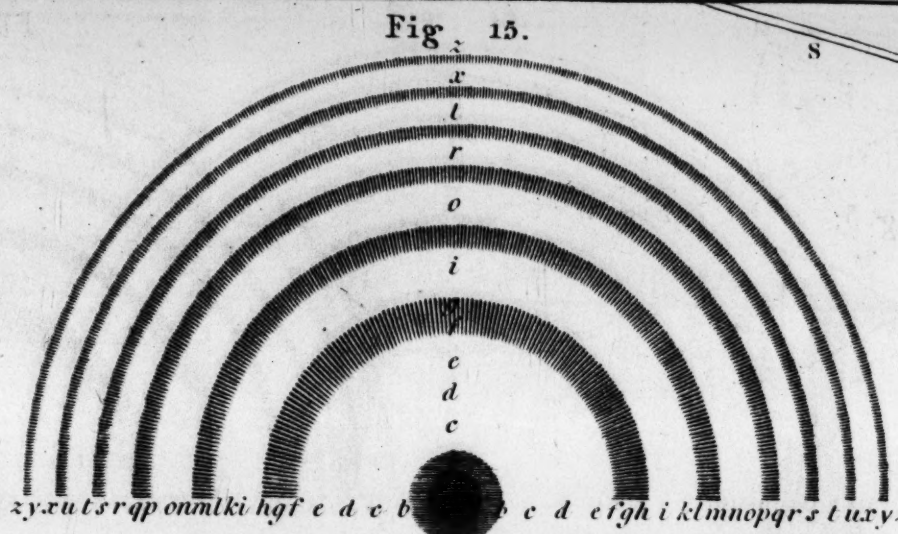
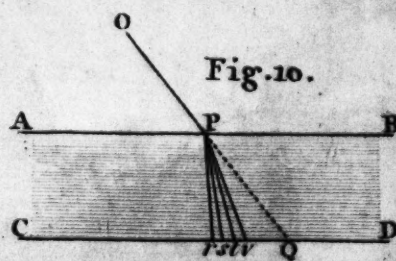
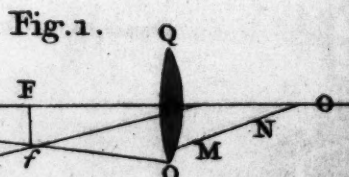
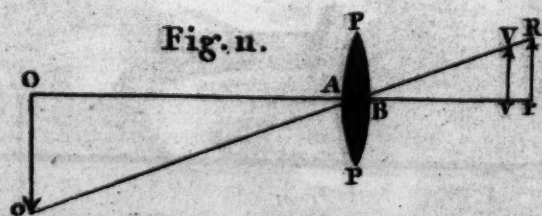
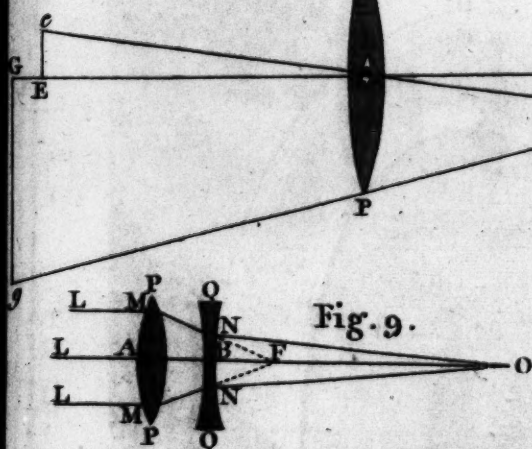
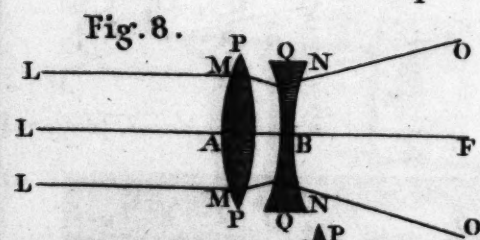
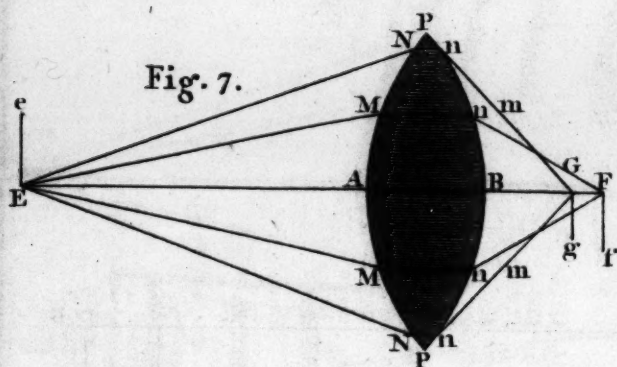
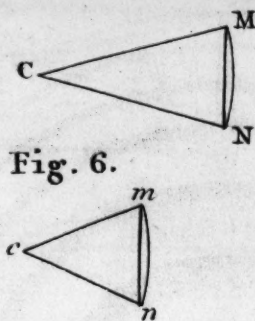
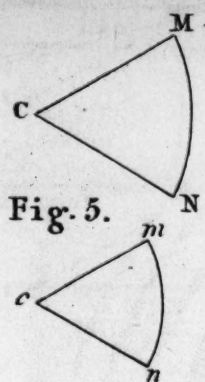
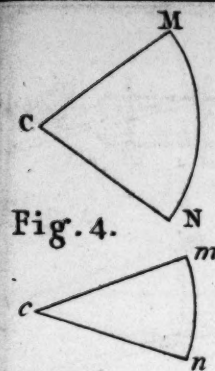
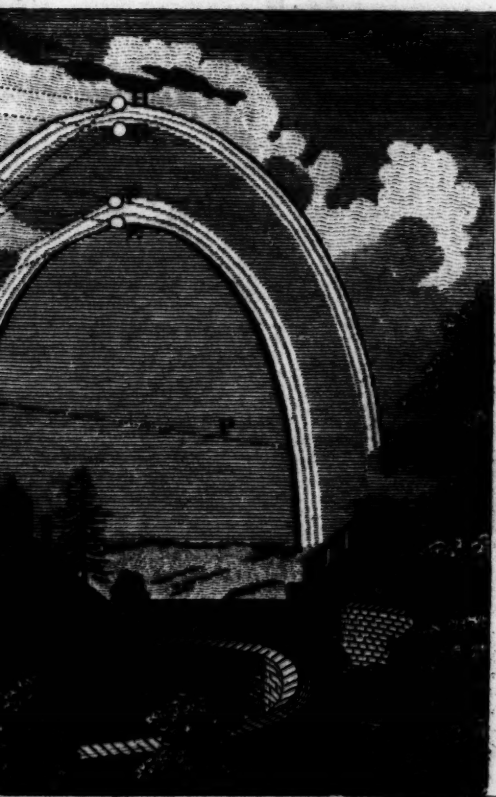
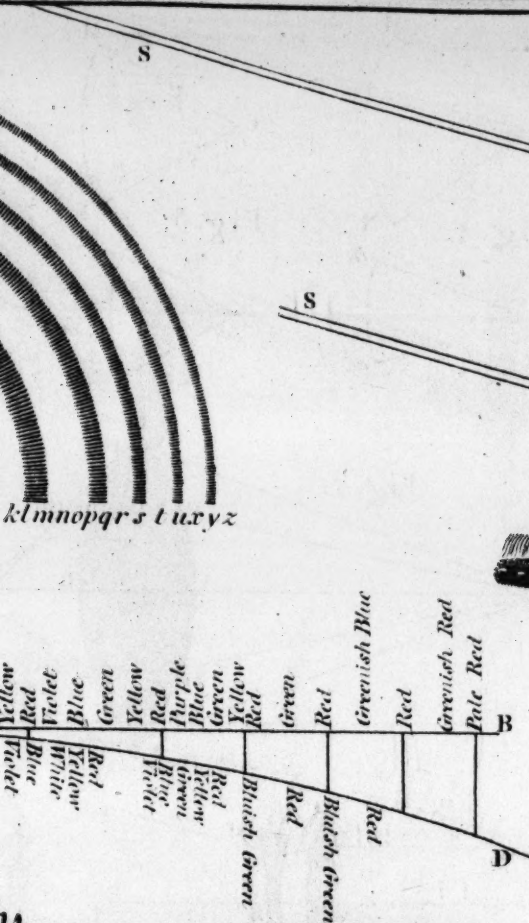


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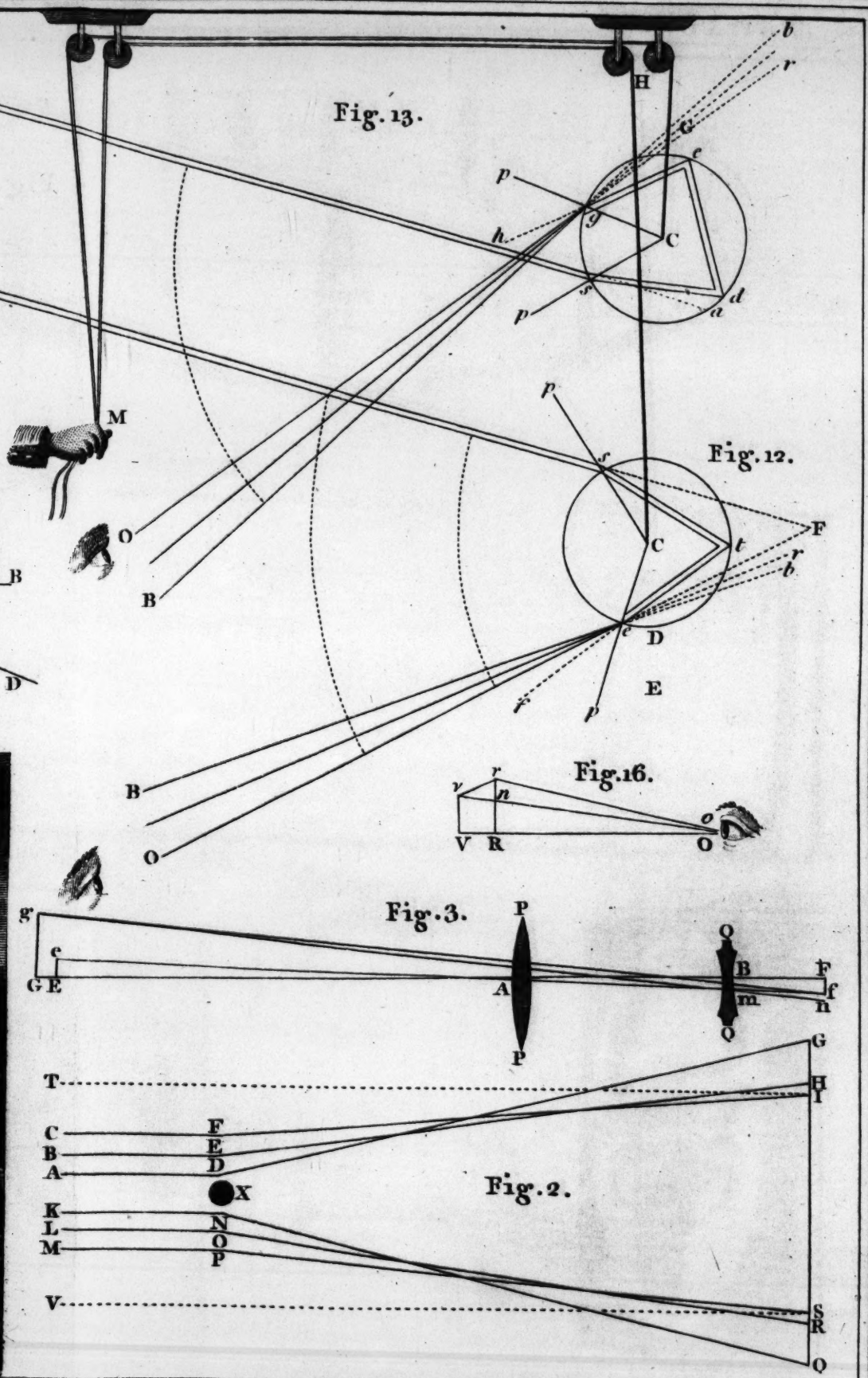








Holborn, as the Act directs, Jan. 1. 1799.



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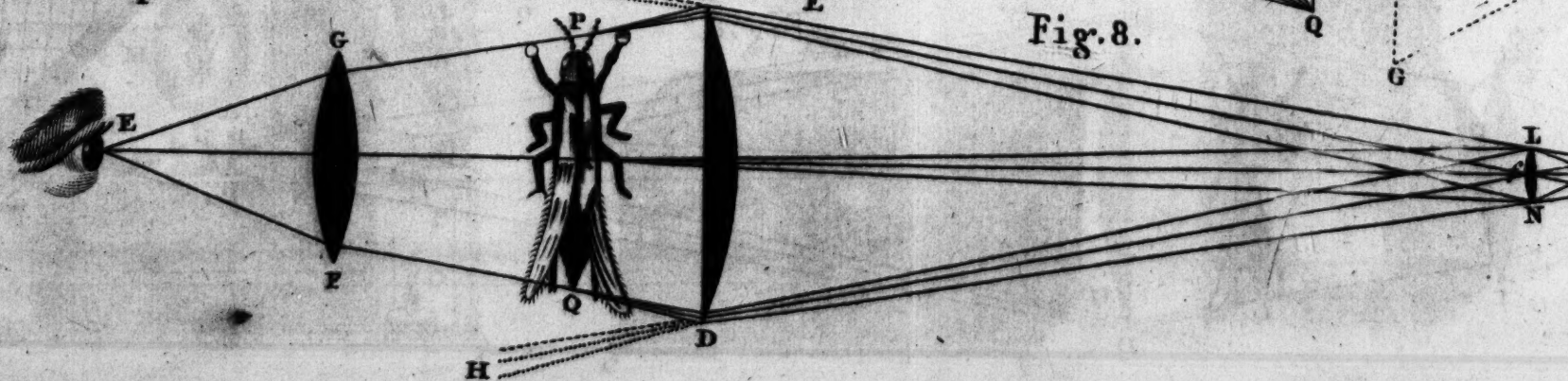
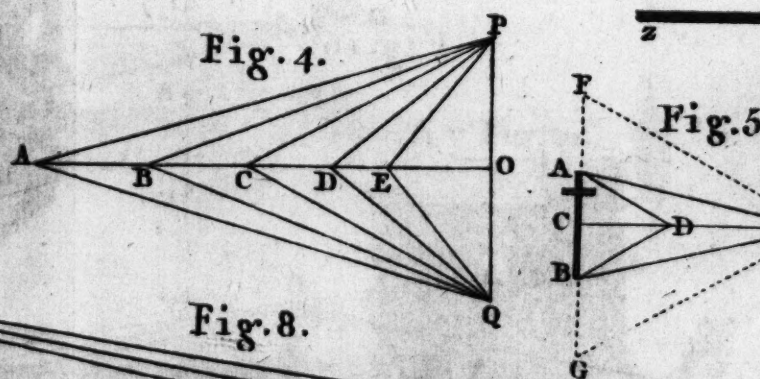
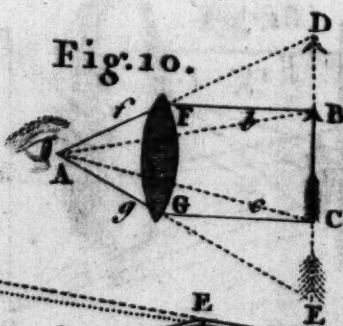
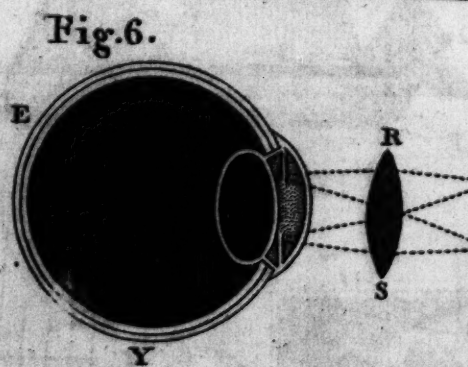
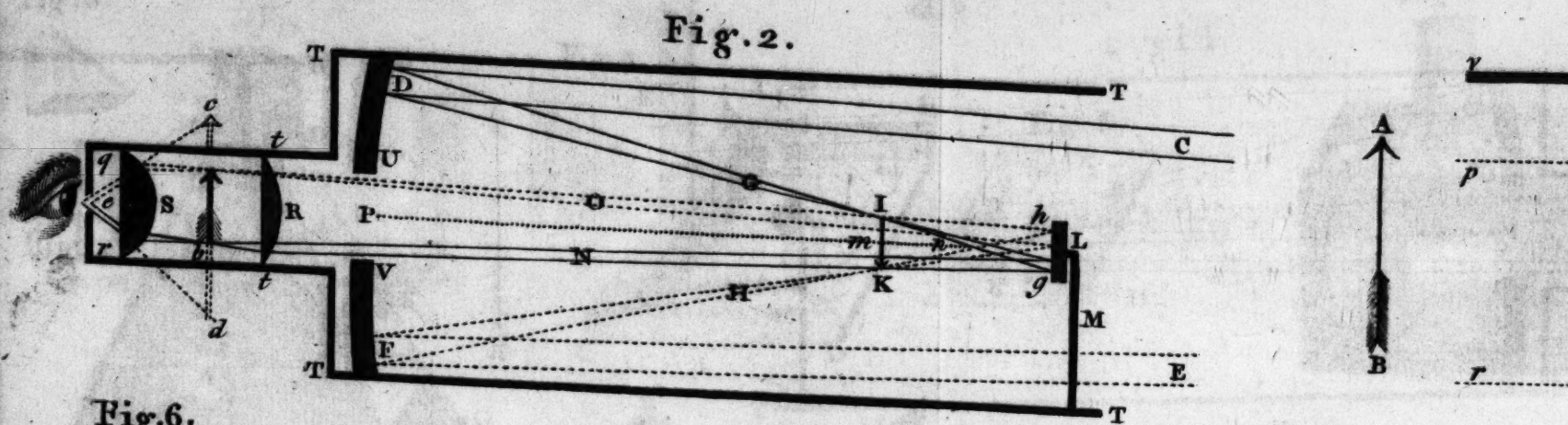
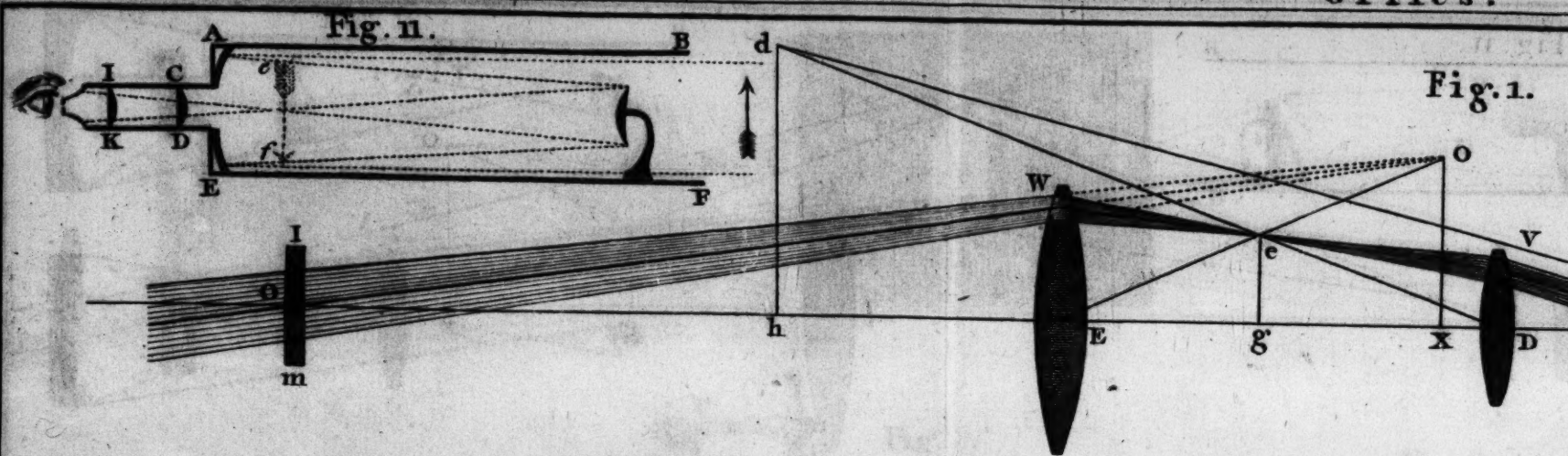


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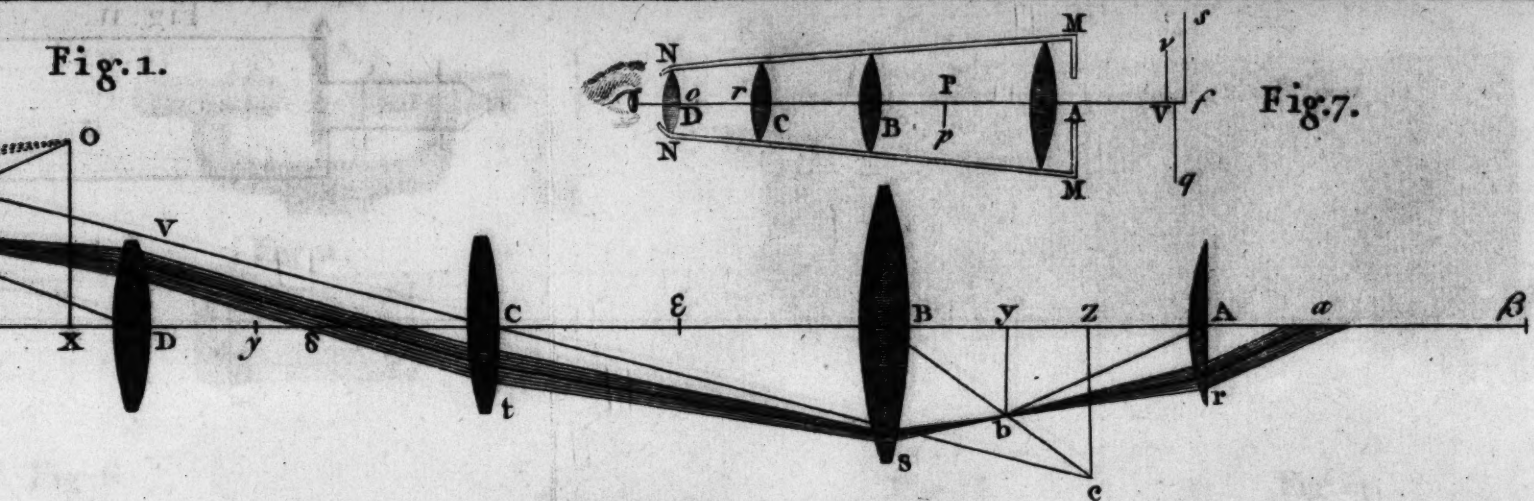


Fig. 7.

Fig. 3.

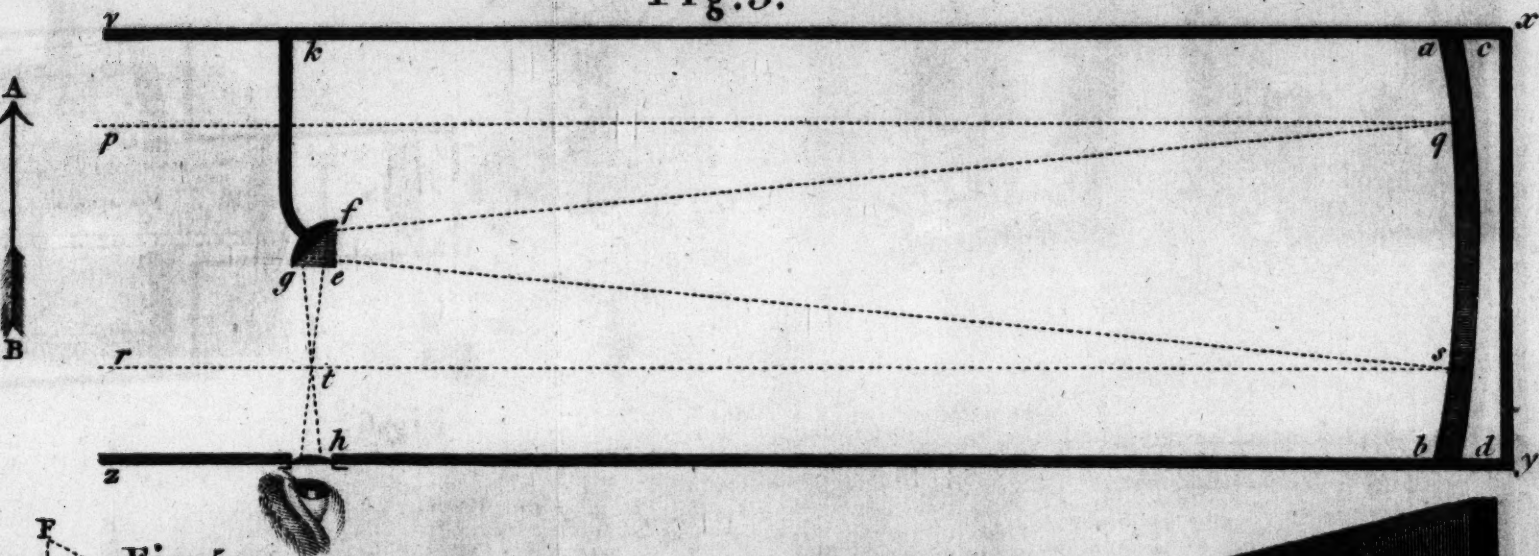


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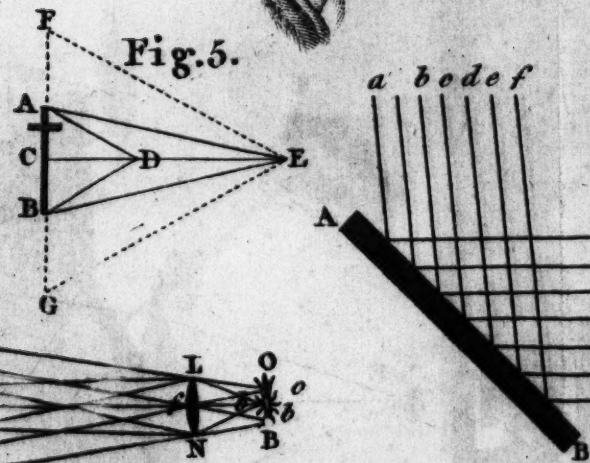


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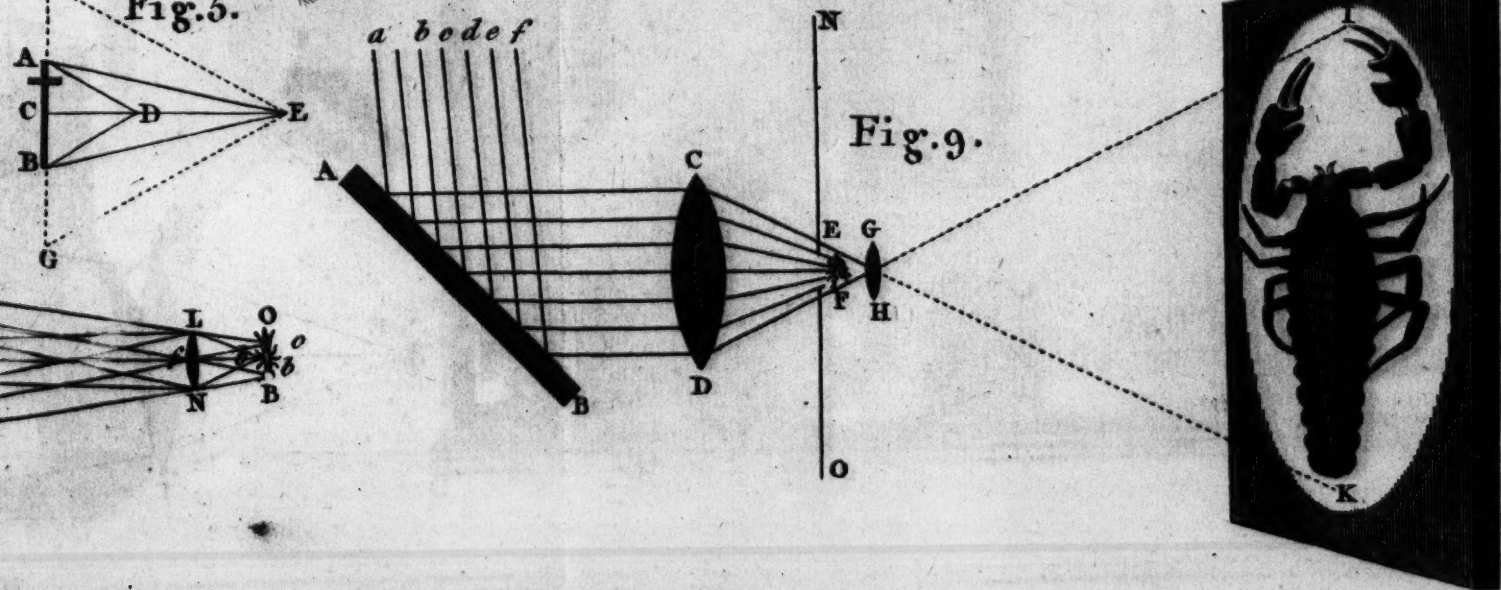




Fig. 1.



Fig. 2.

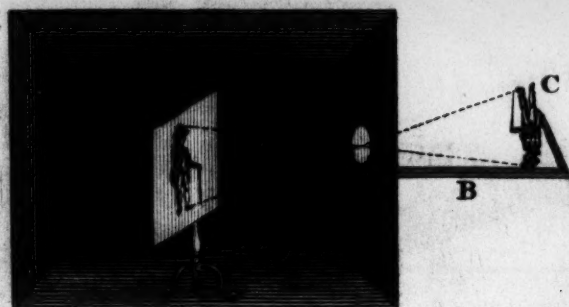


Fig. 3.

Fig. 5.



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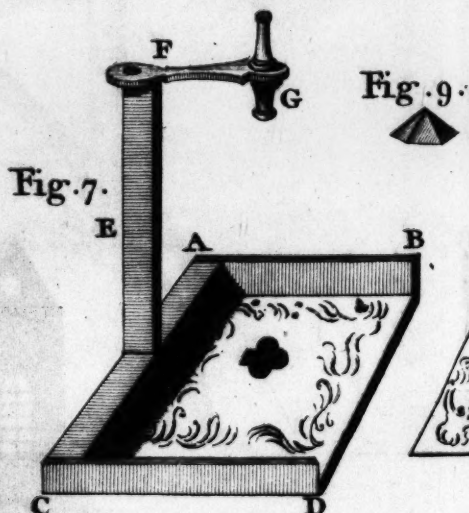
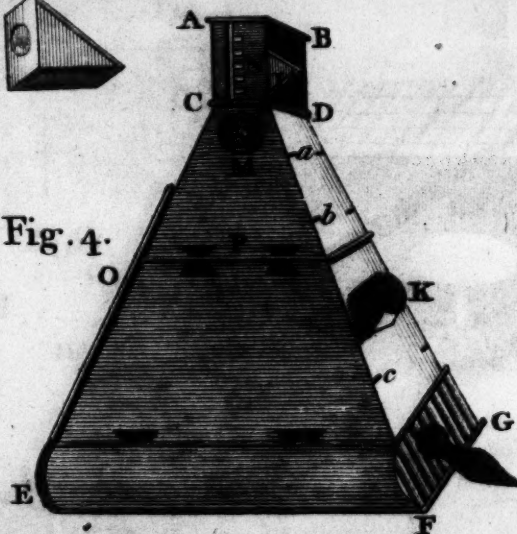


Fig. 7.

Fig. 9.



Fig. 8.

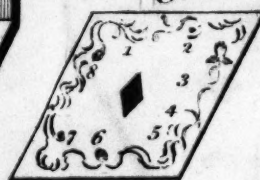


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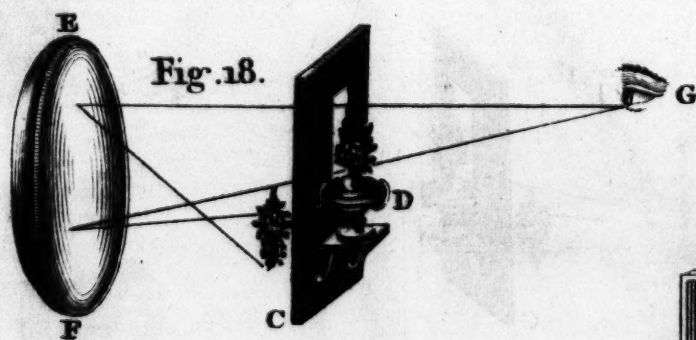
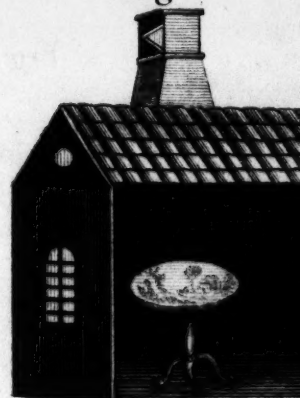


Fig. 18.

Fig. 19.

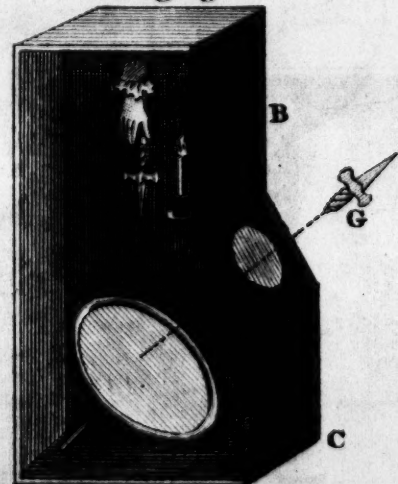


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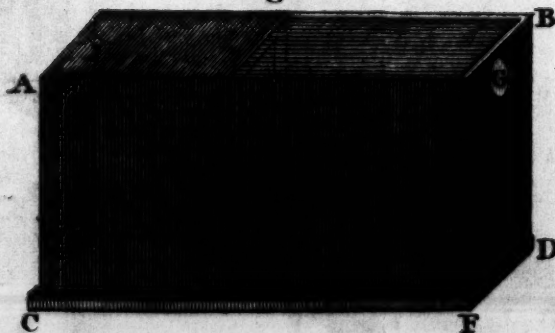


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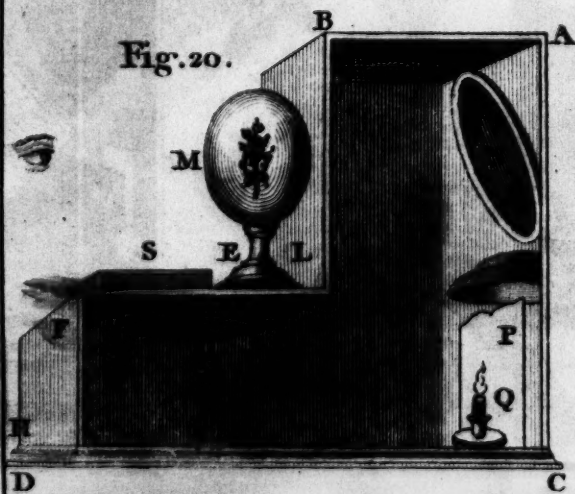


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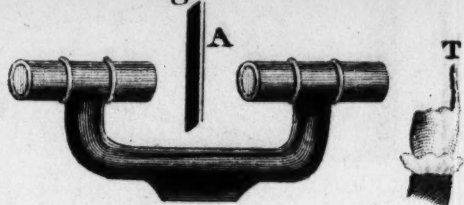


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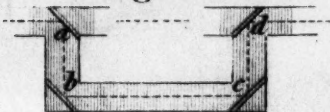


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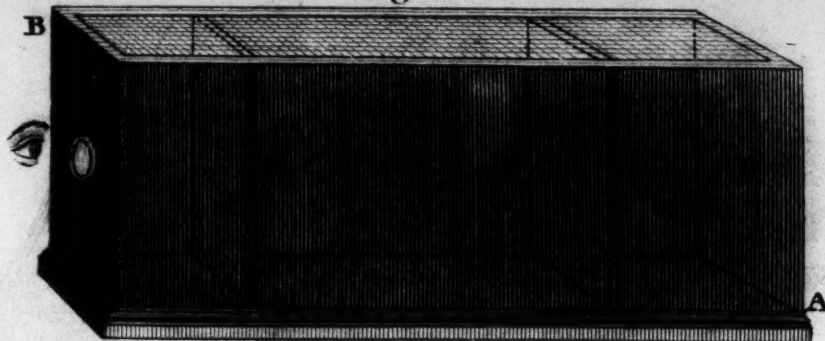


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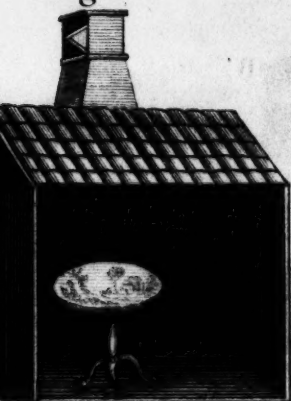


Fig. 16.



Fig. 13.

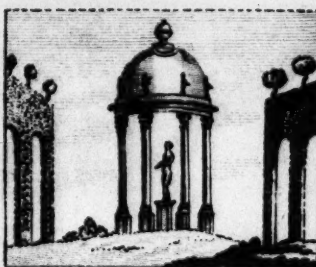


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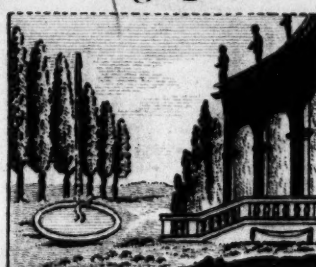


Fig. 17.



Fig. 15.

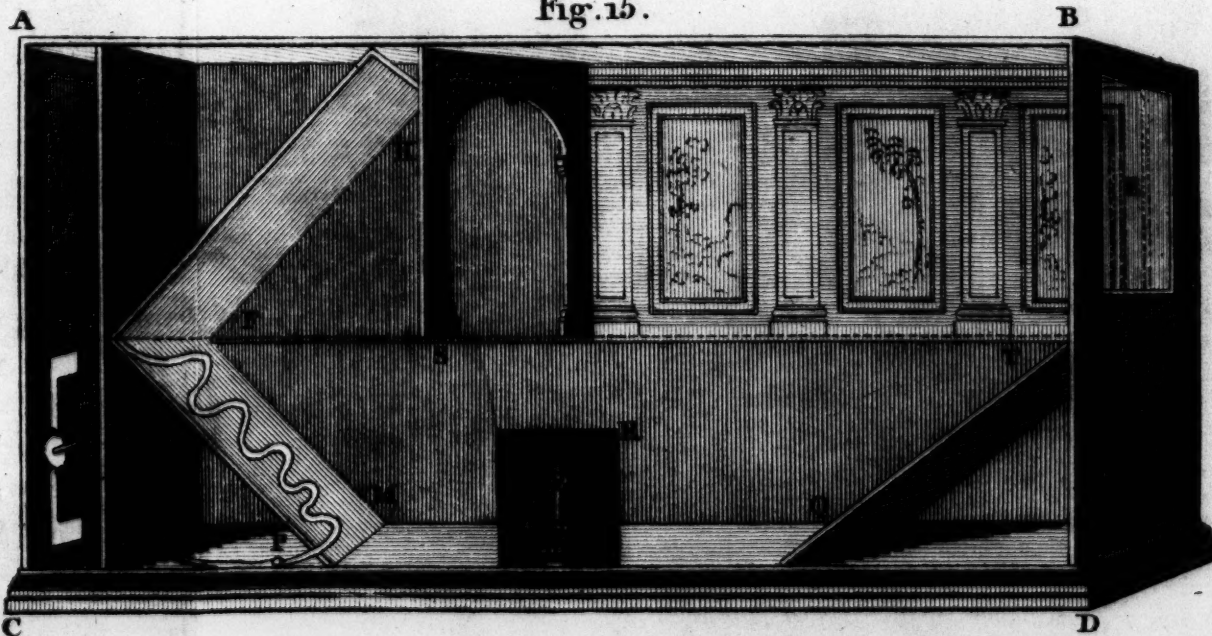
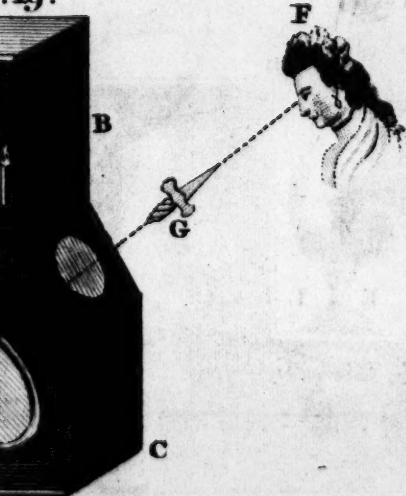
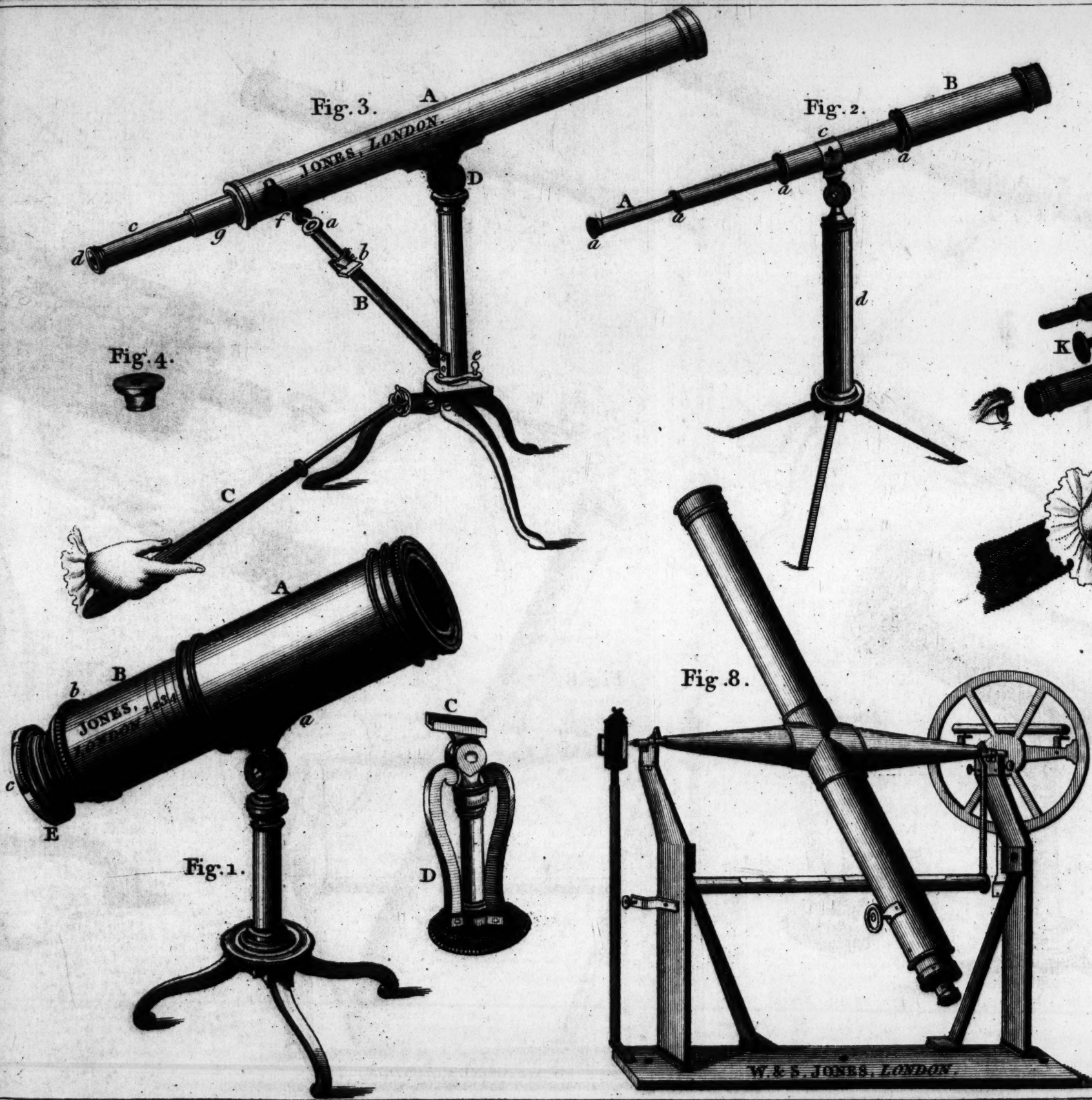
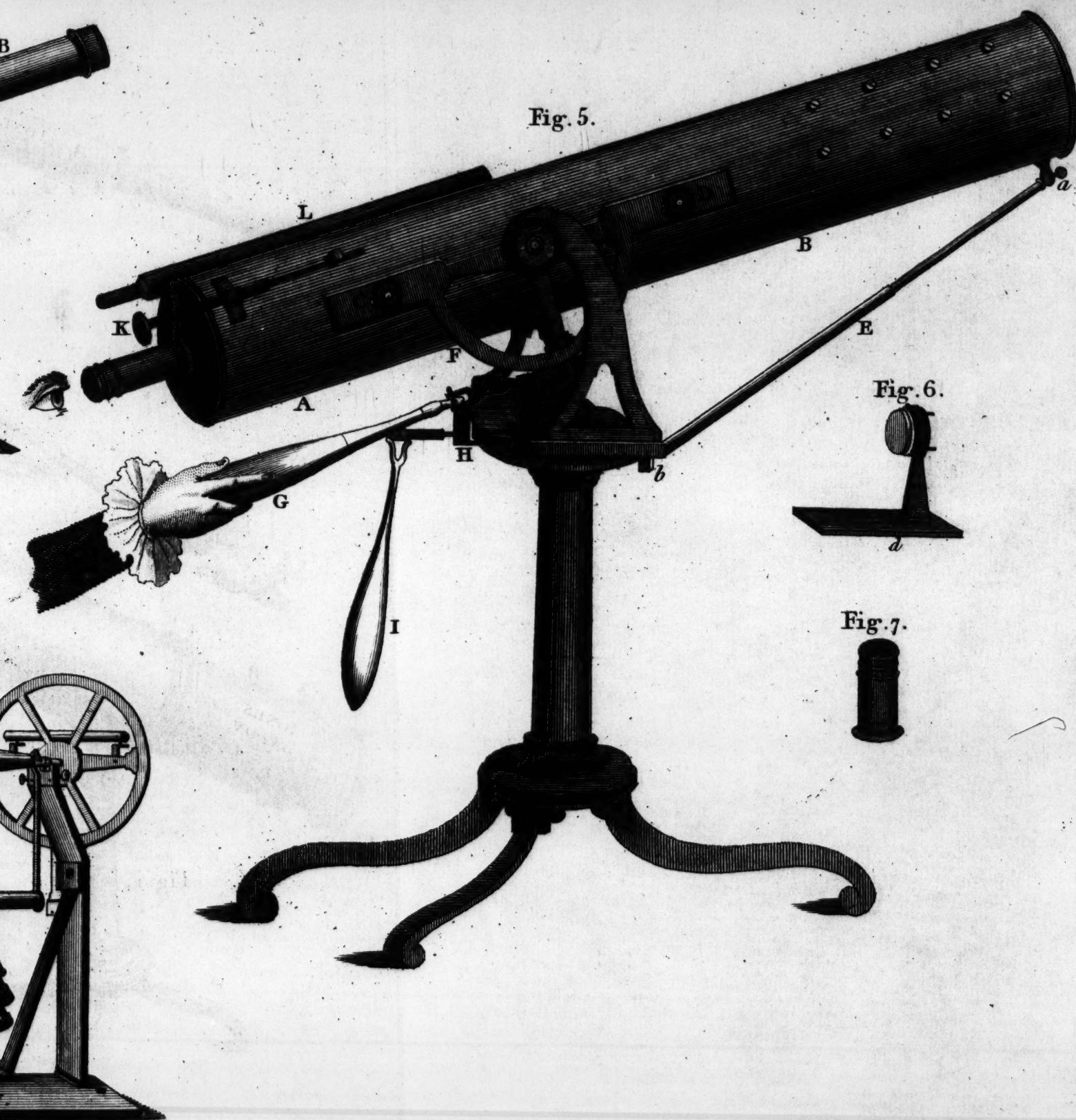
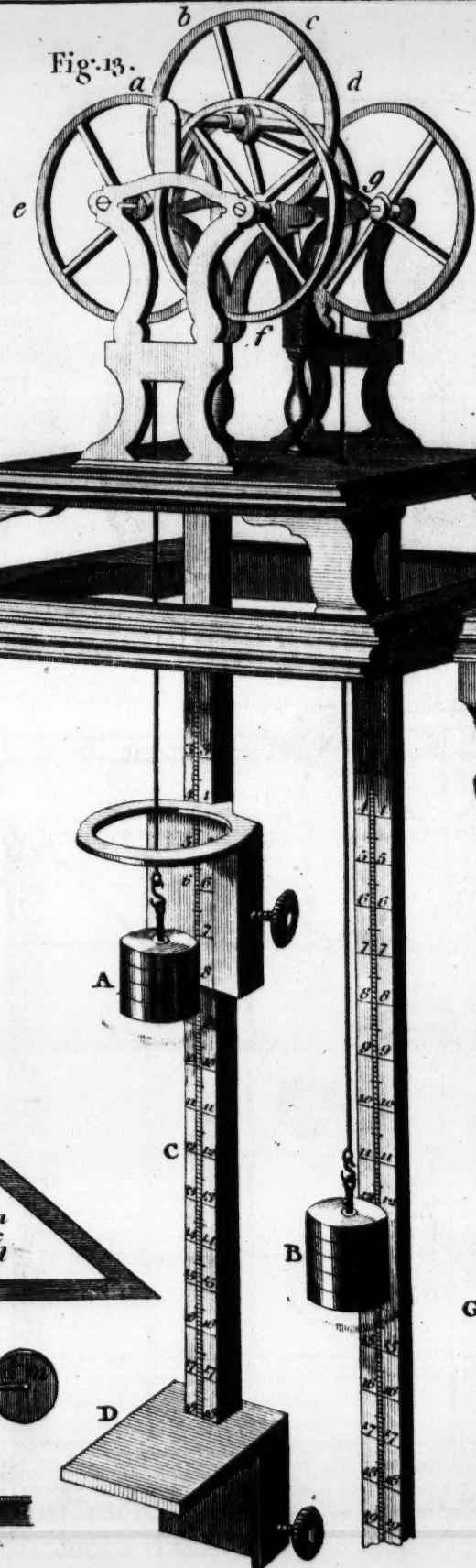
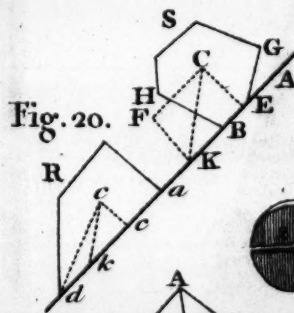
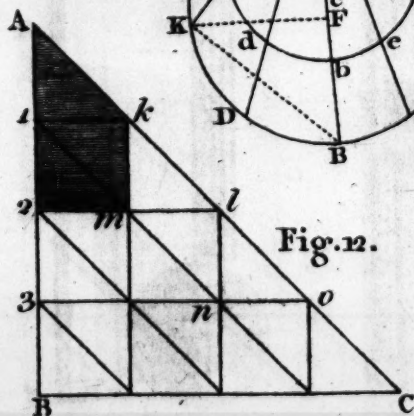
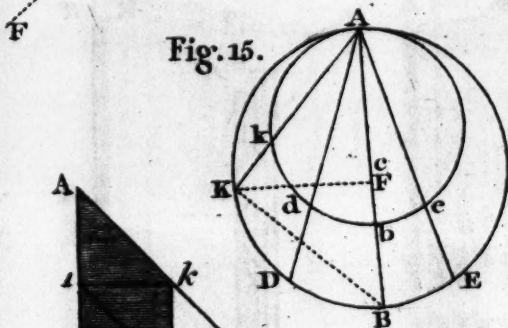
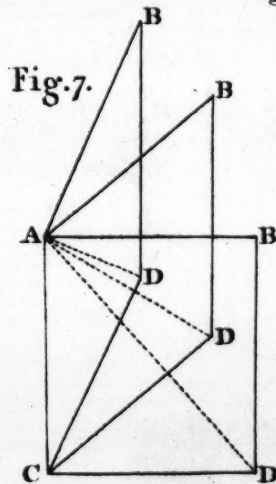
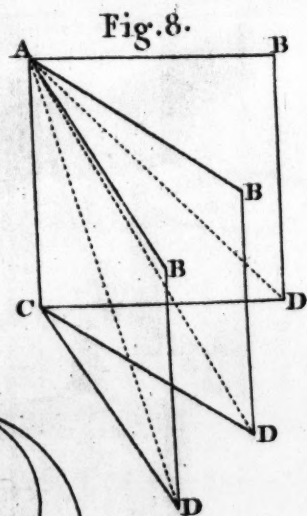
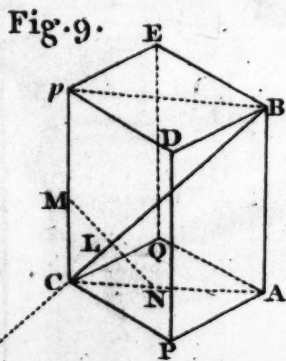
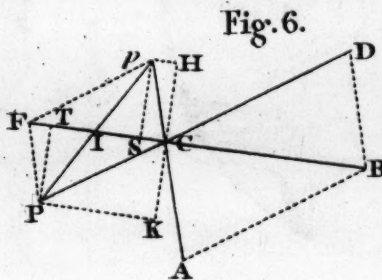
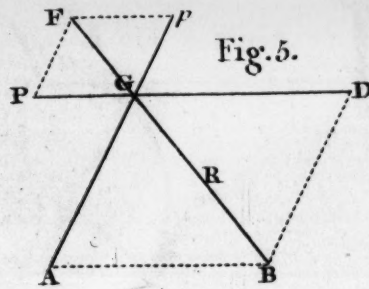
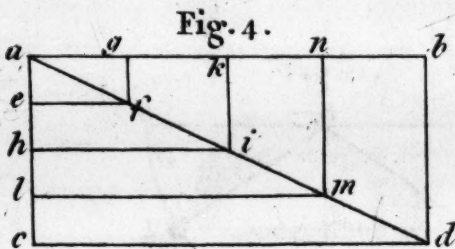
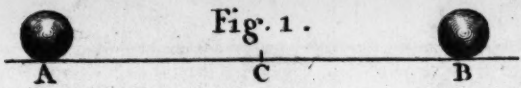


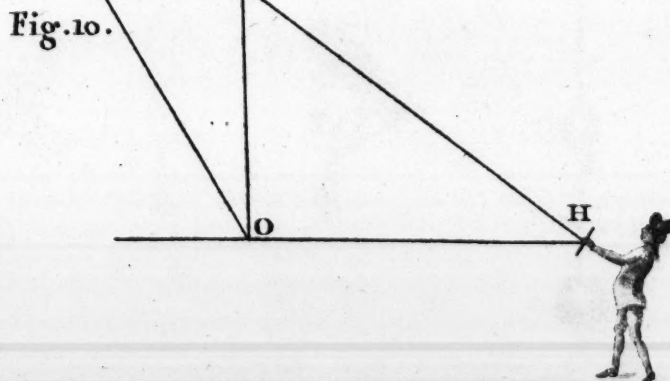
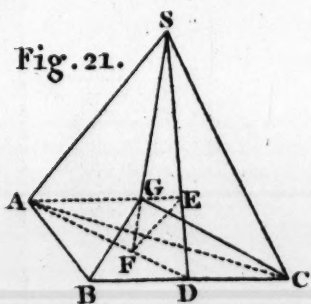
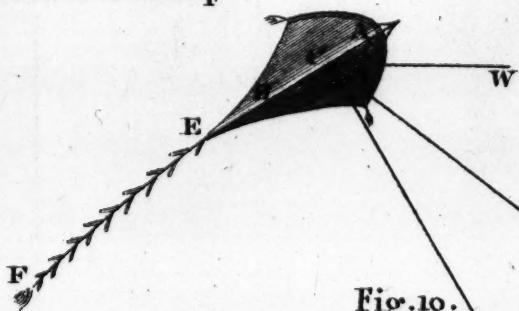
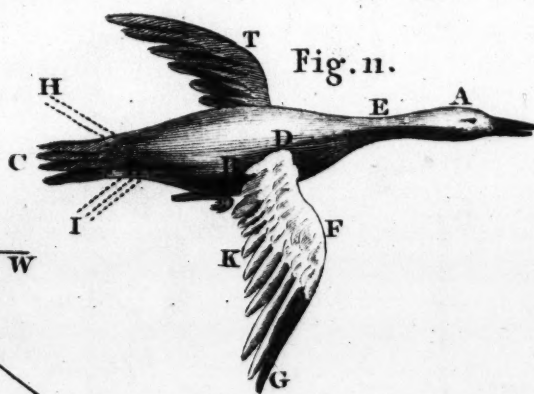
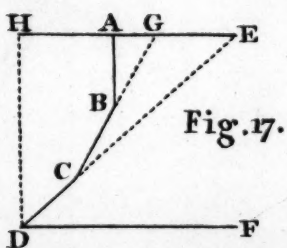
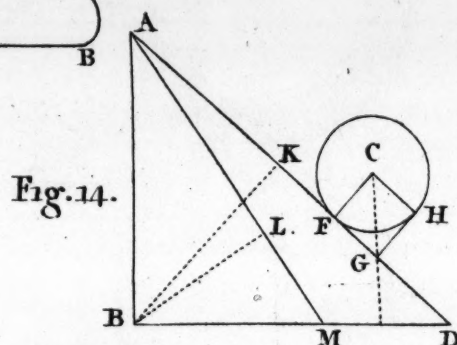
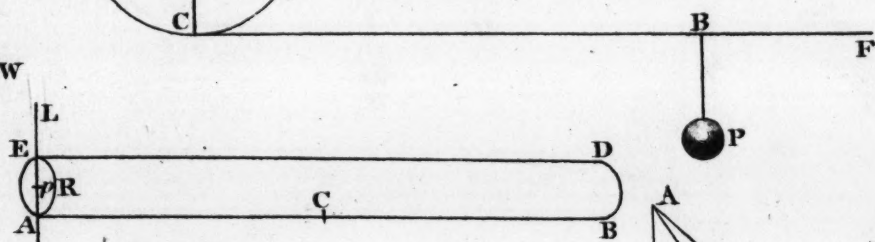
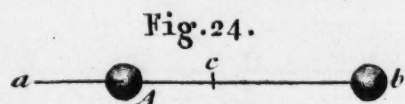
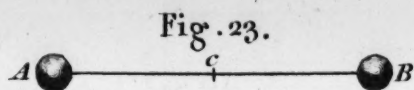
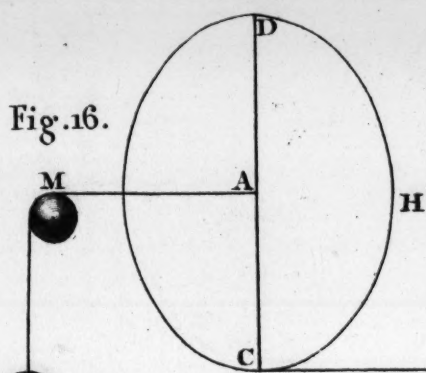
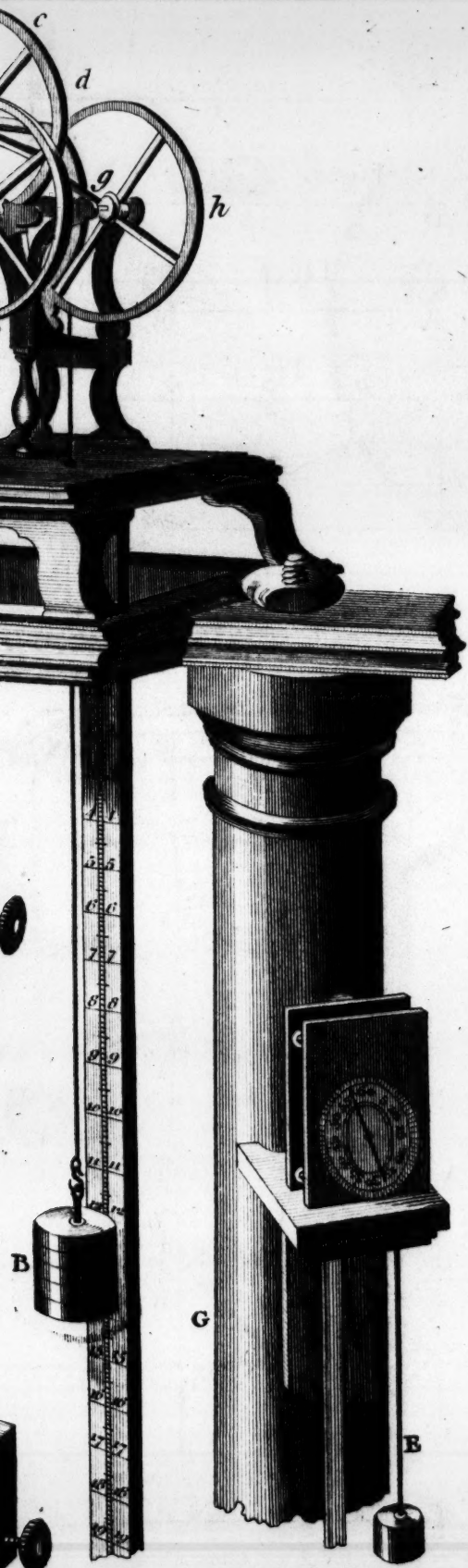
Fig. 19.











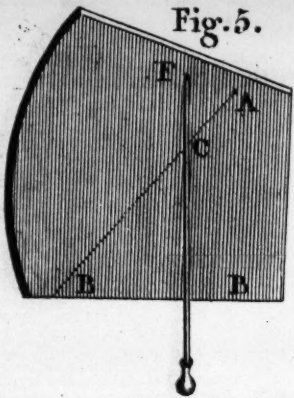


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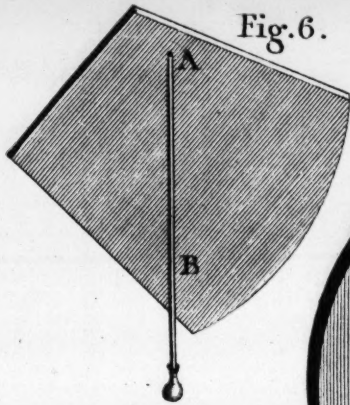


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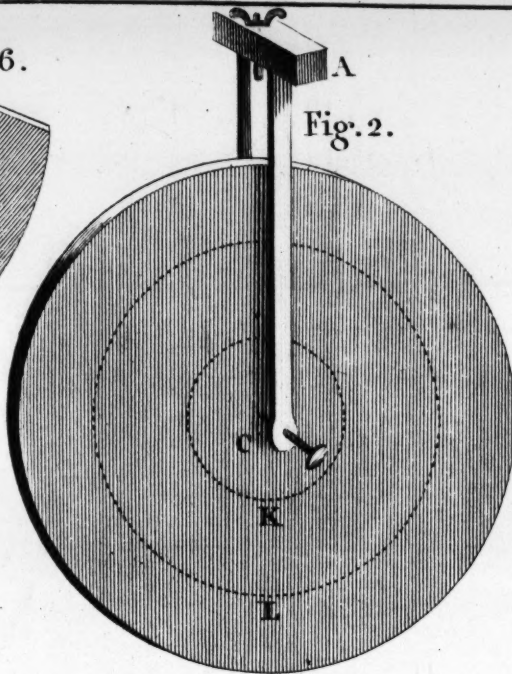


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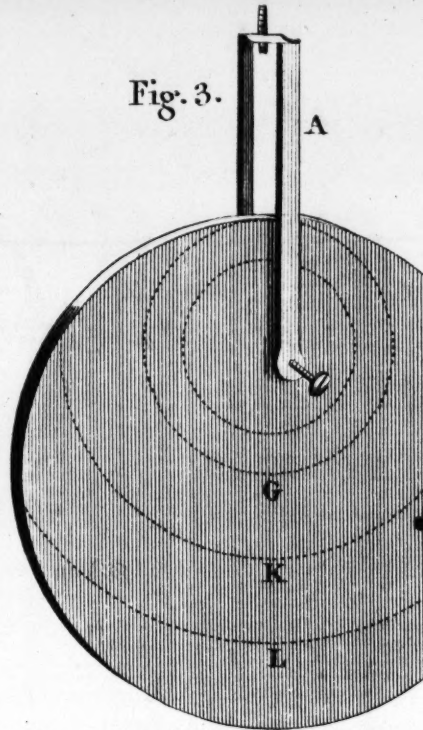


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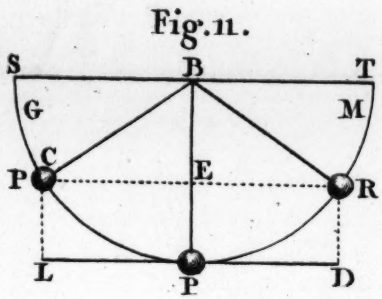


Fig. 11.

Fig. 16.

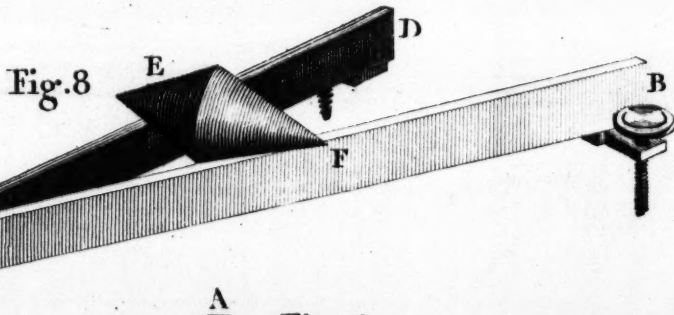


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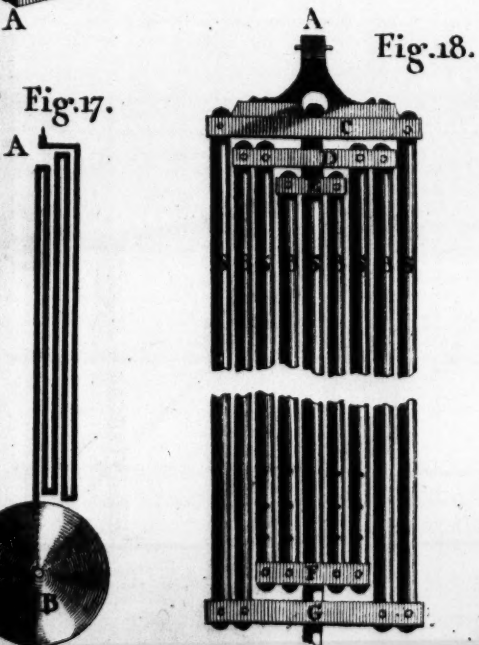


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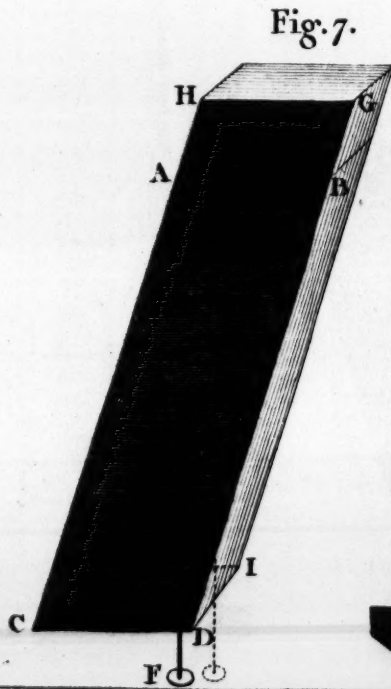


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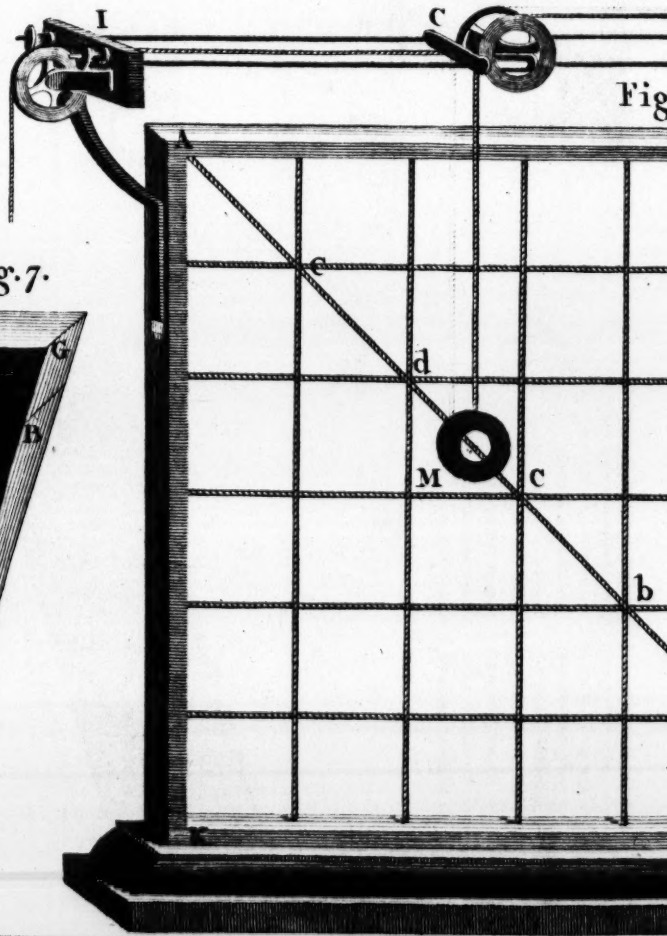


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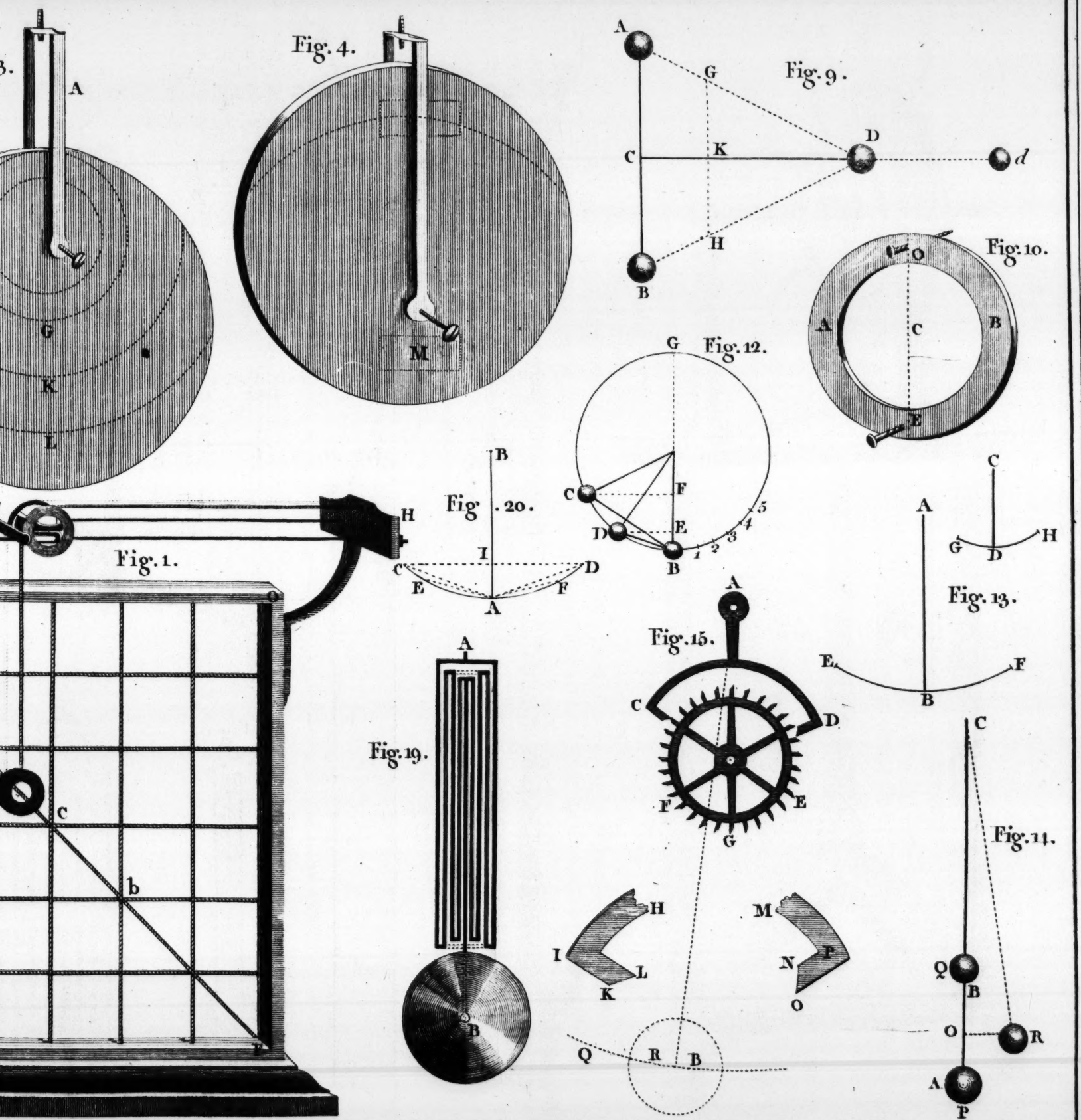


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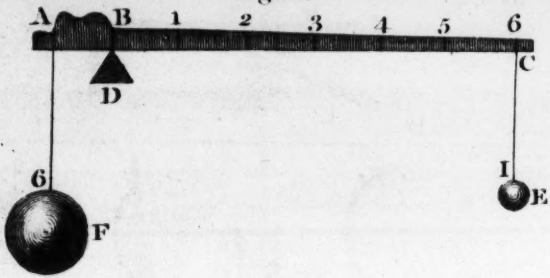


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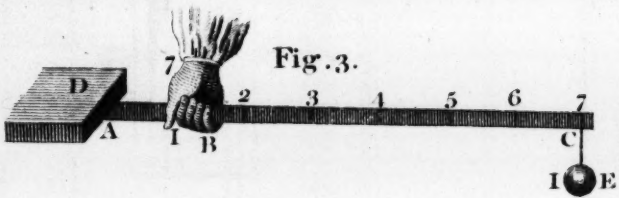


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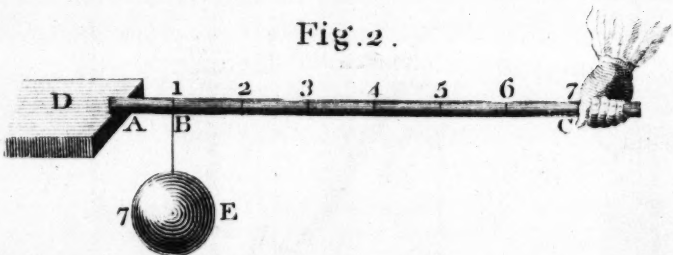


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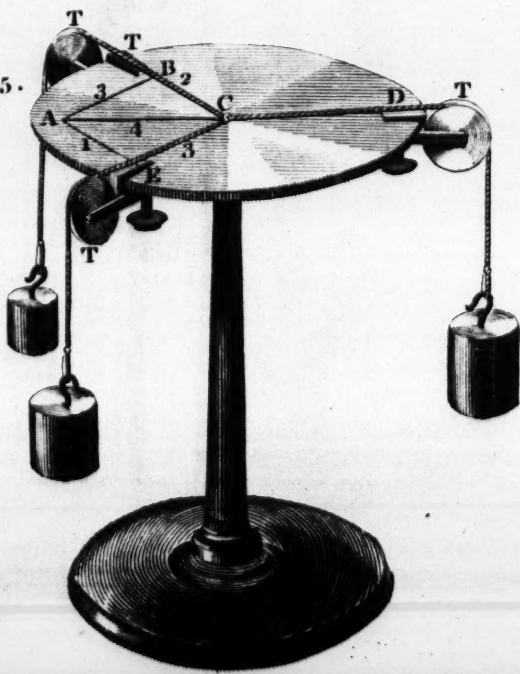


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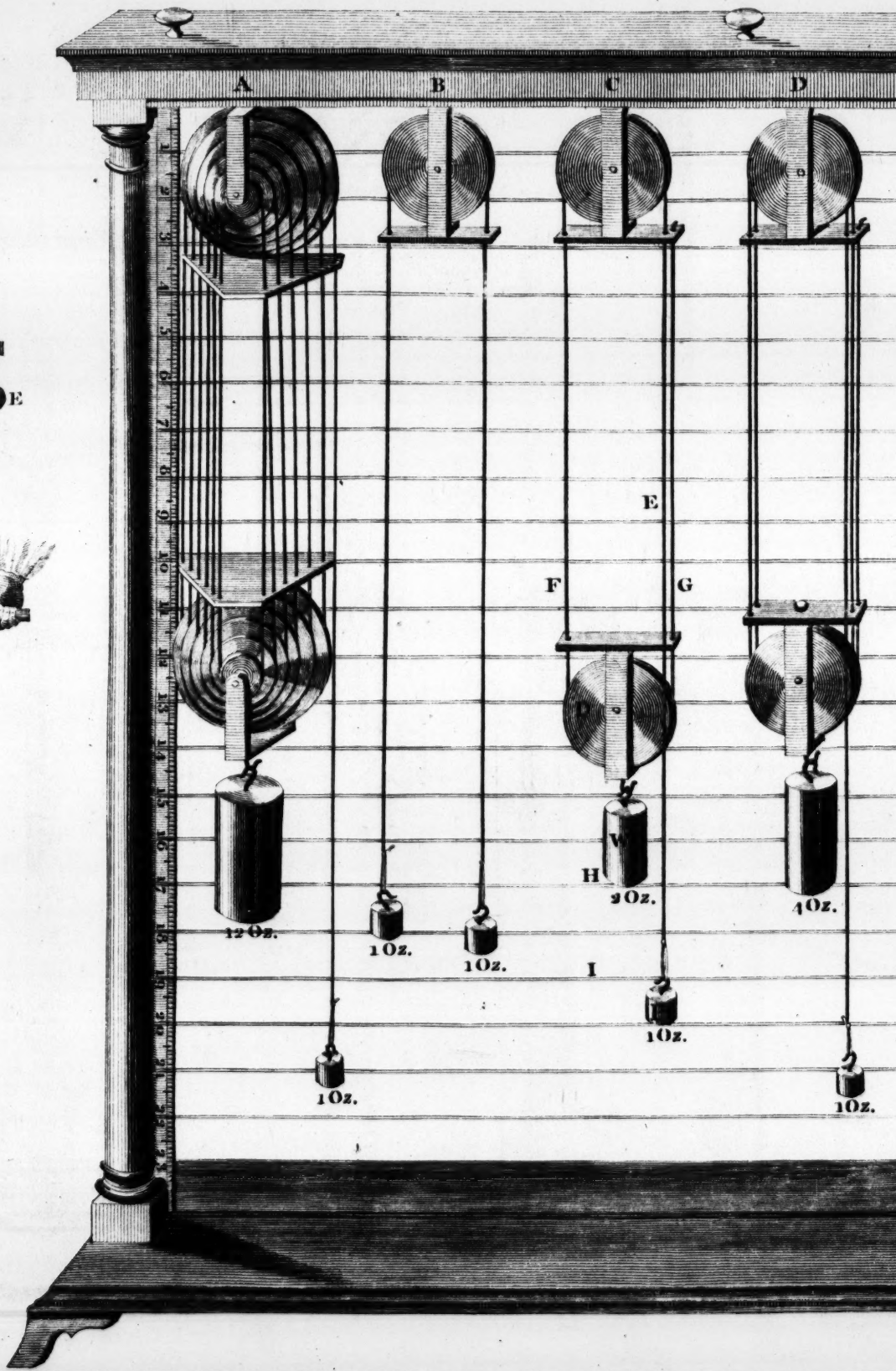


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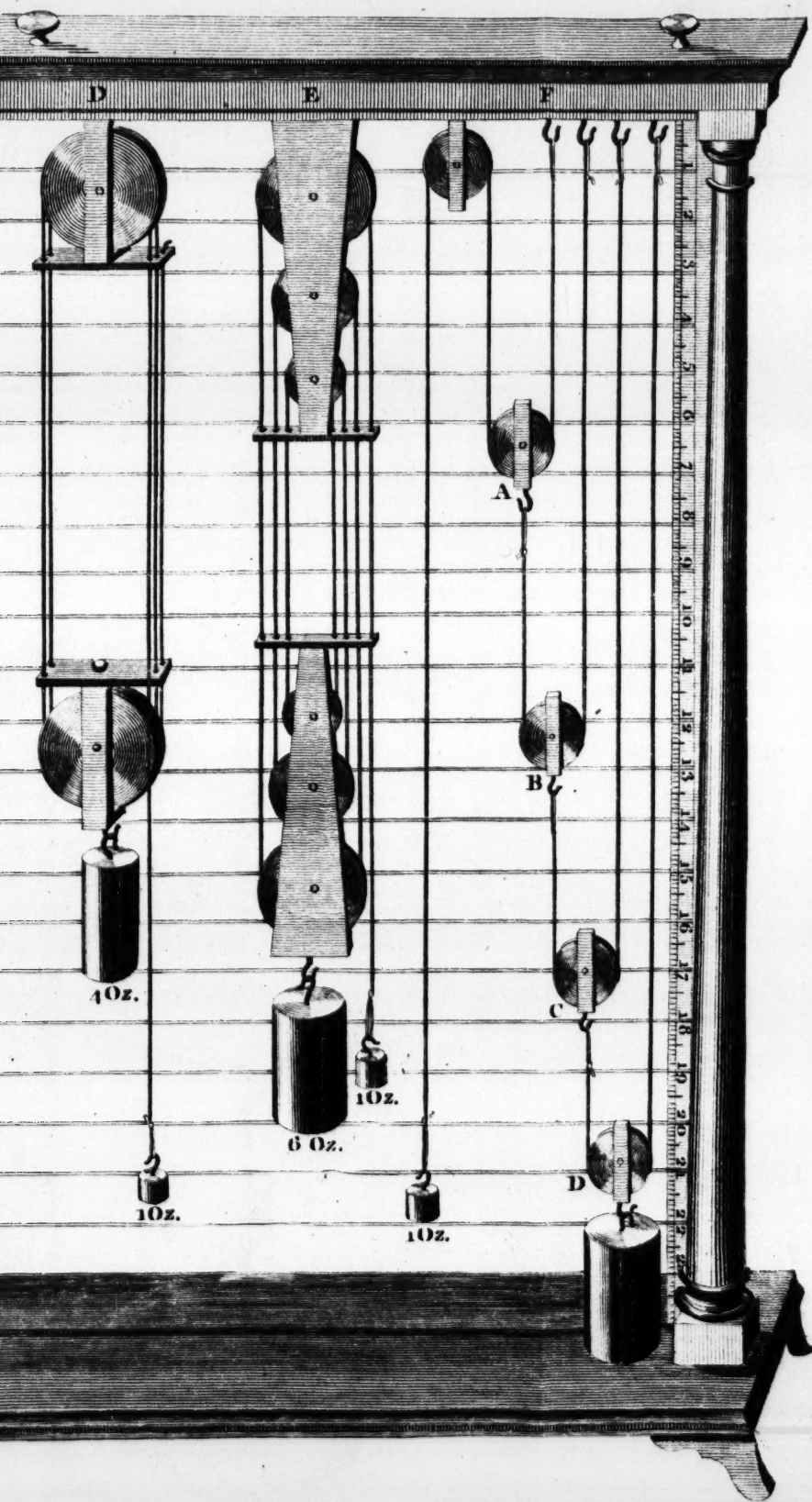
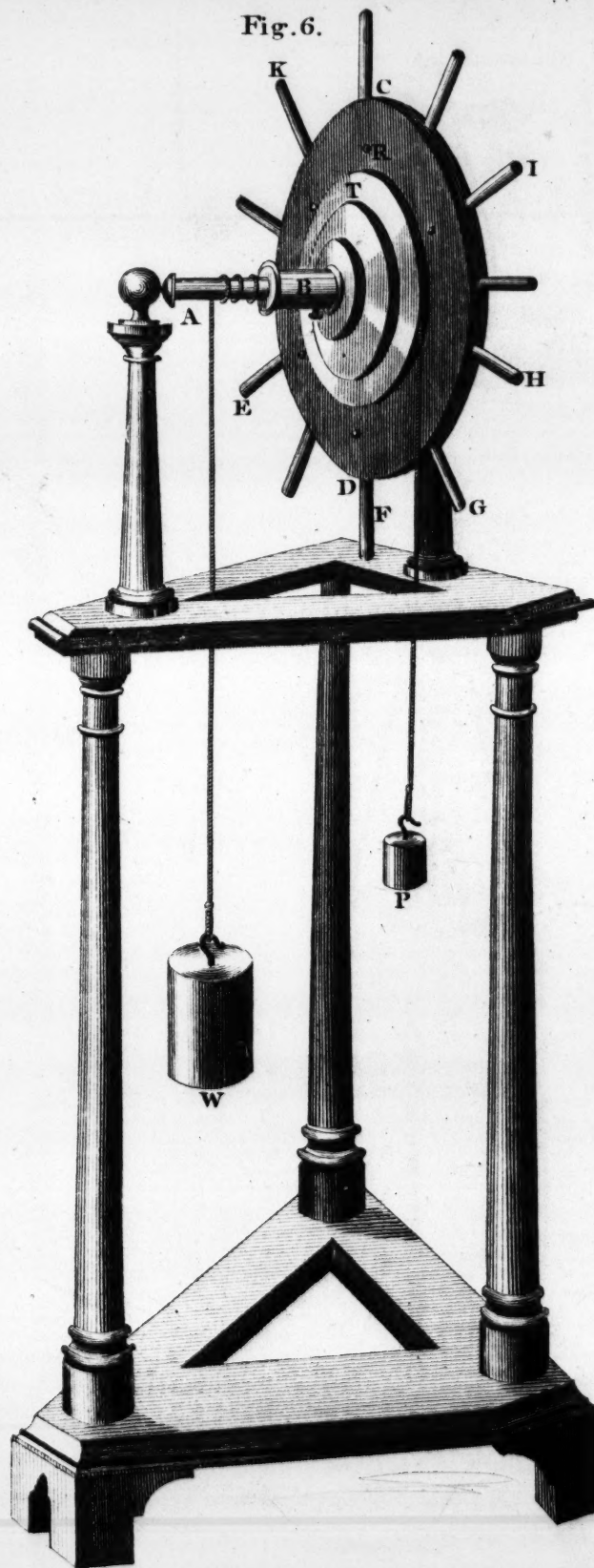


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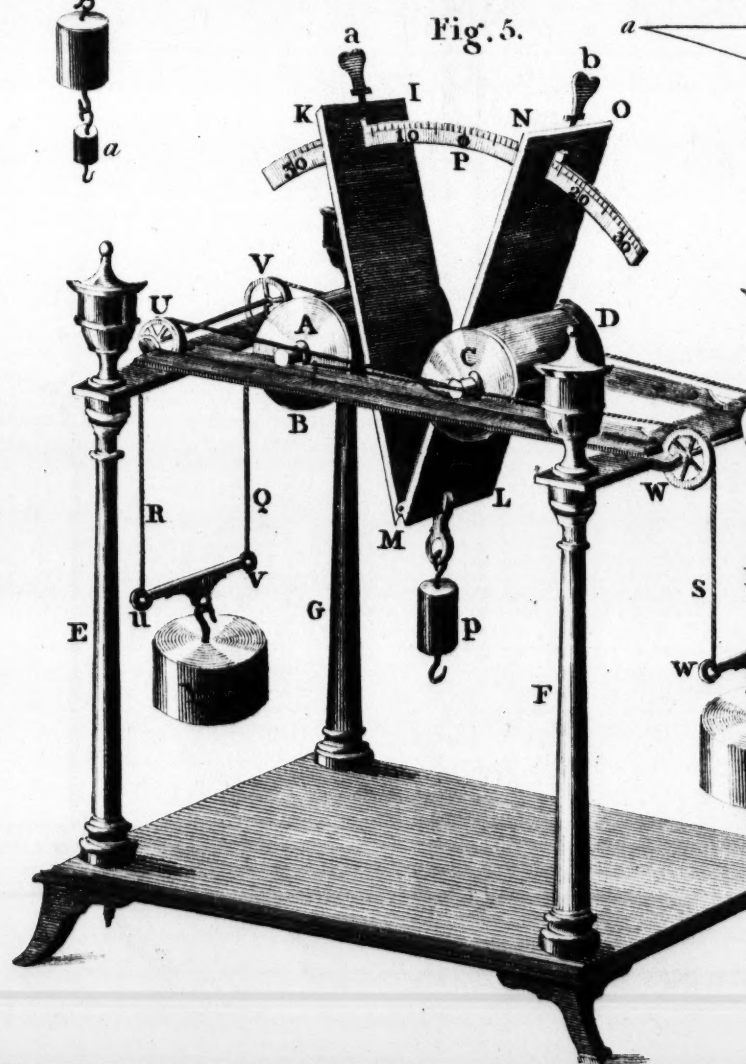
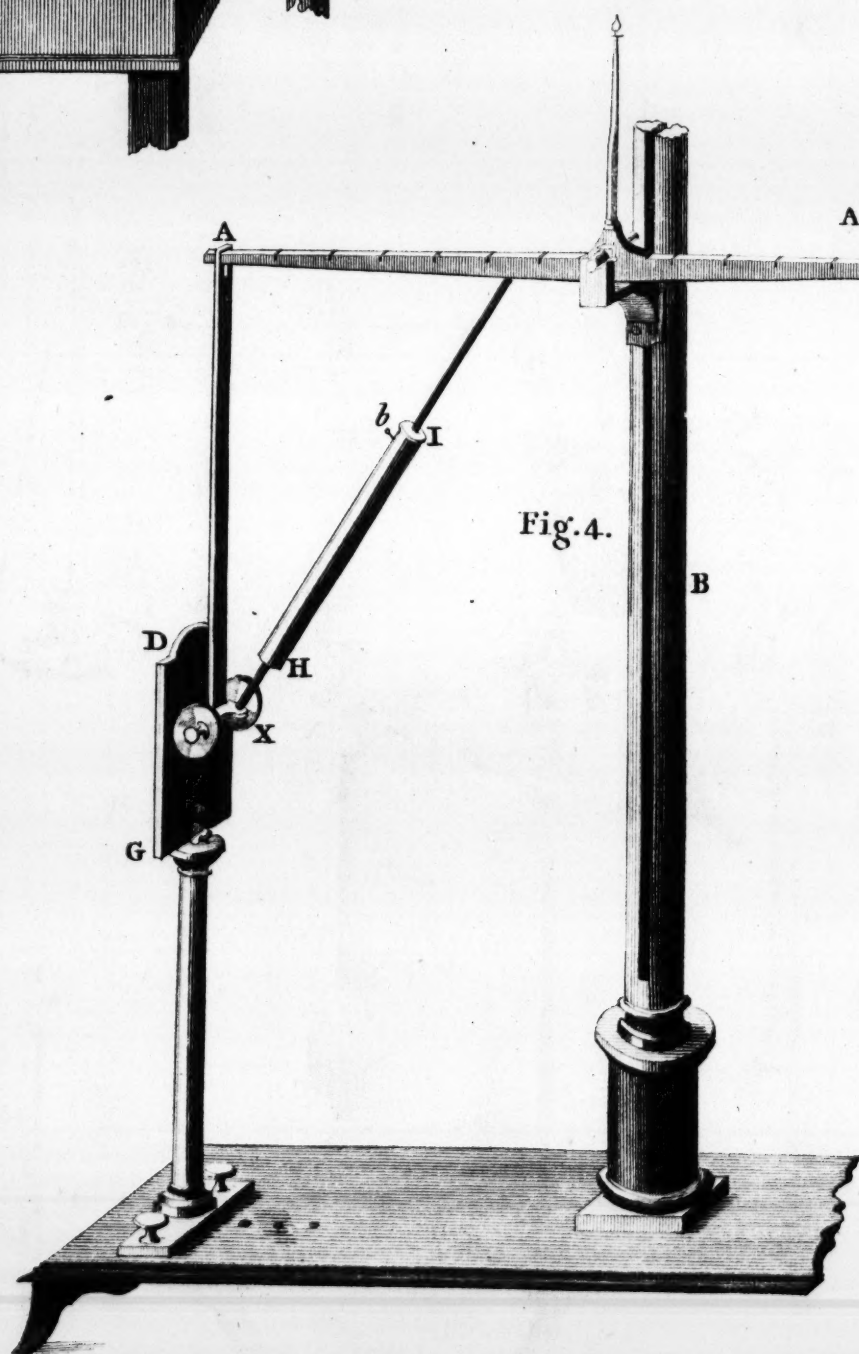
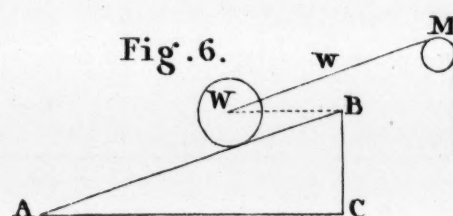
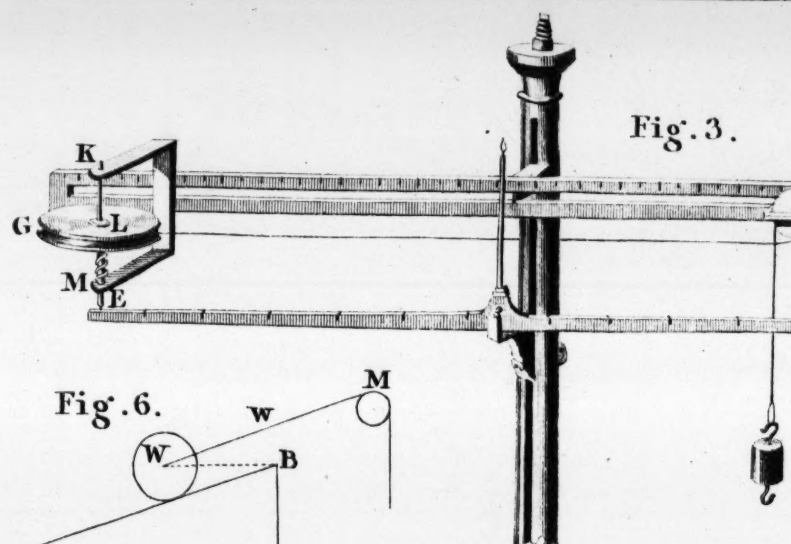
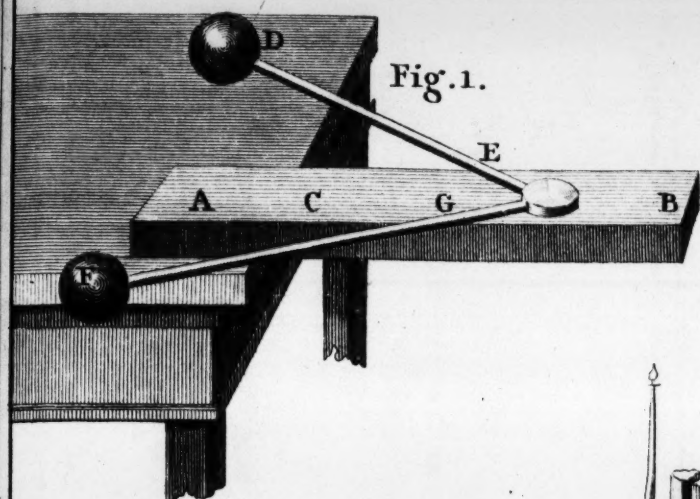


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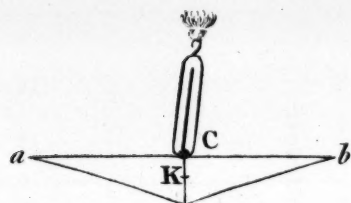
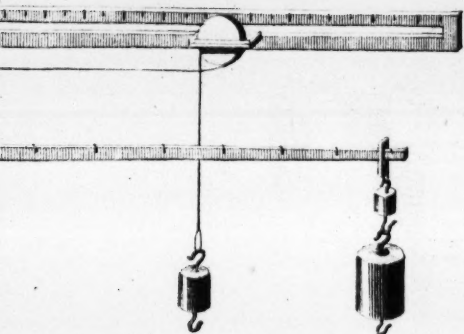


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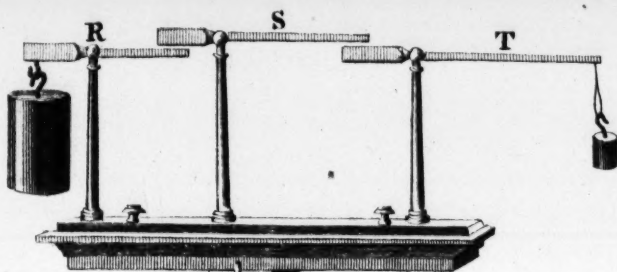
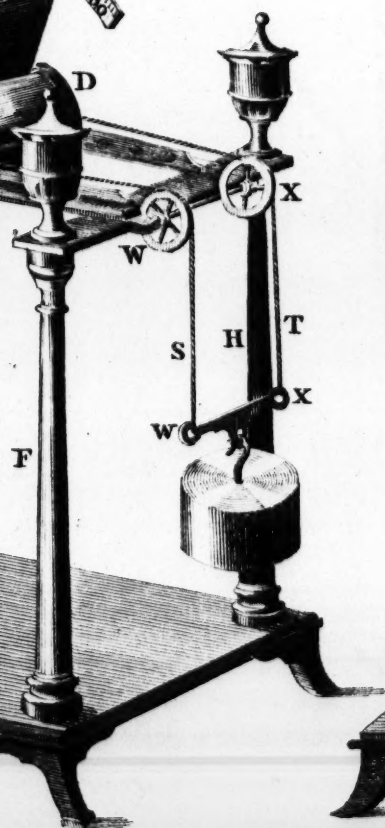


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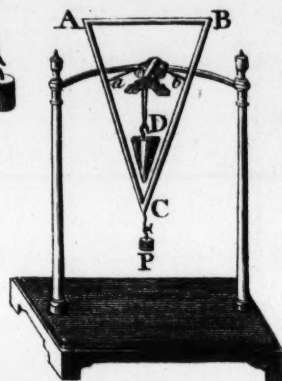
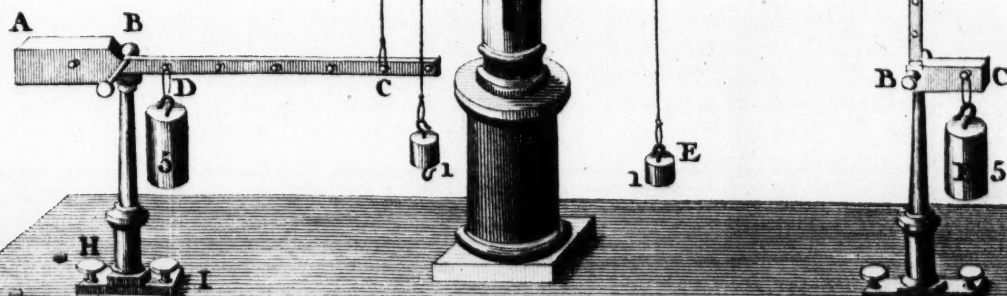
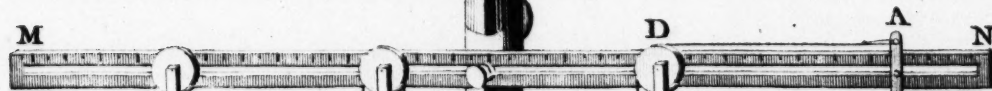
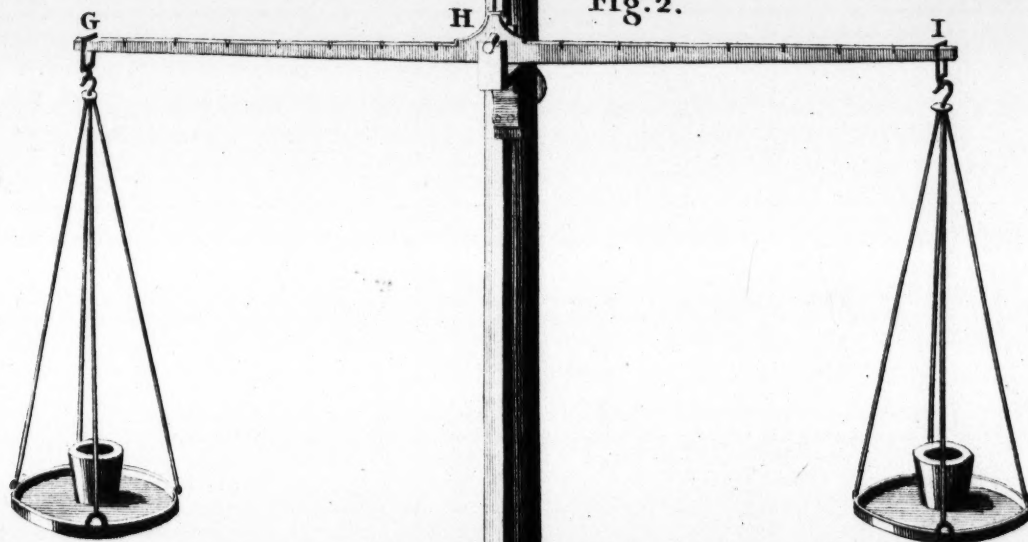


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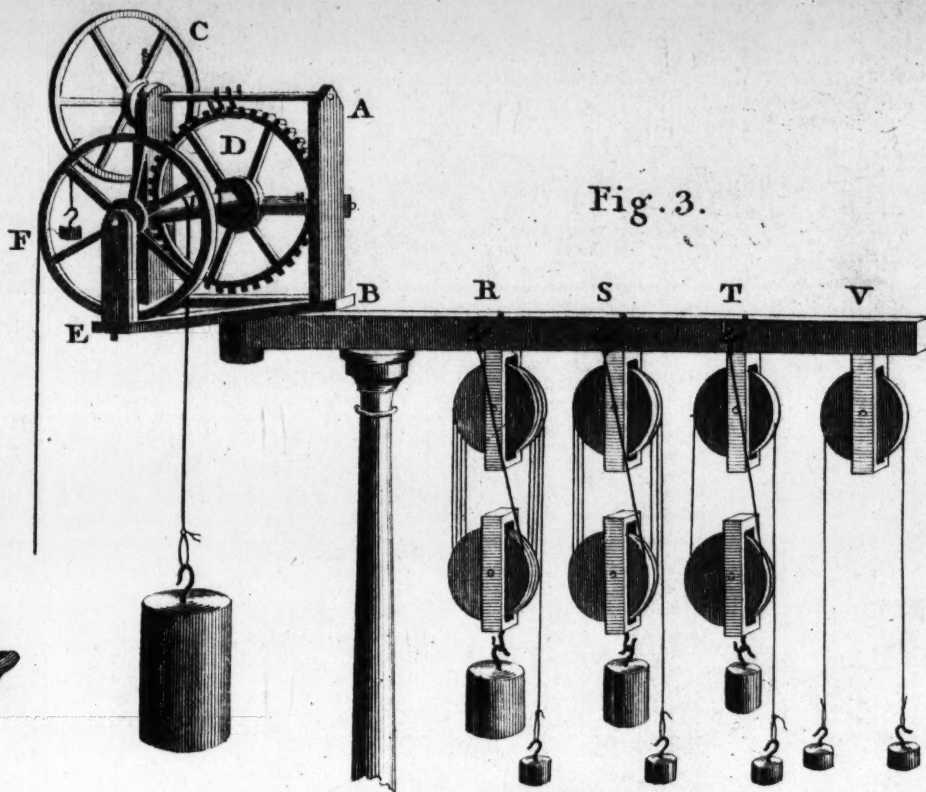
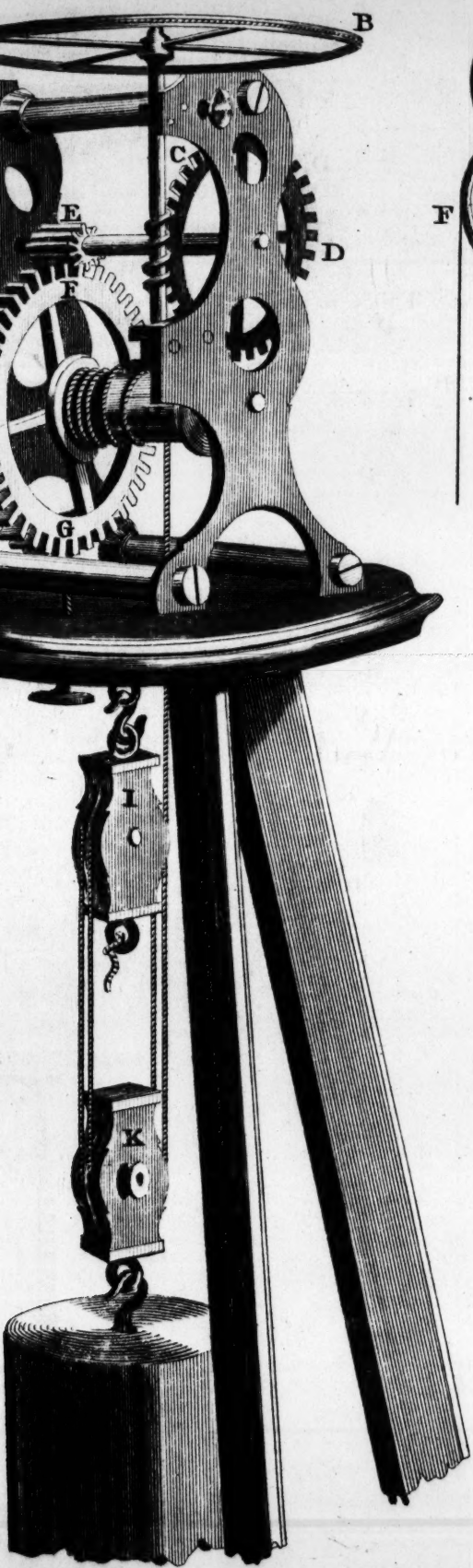


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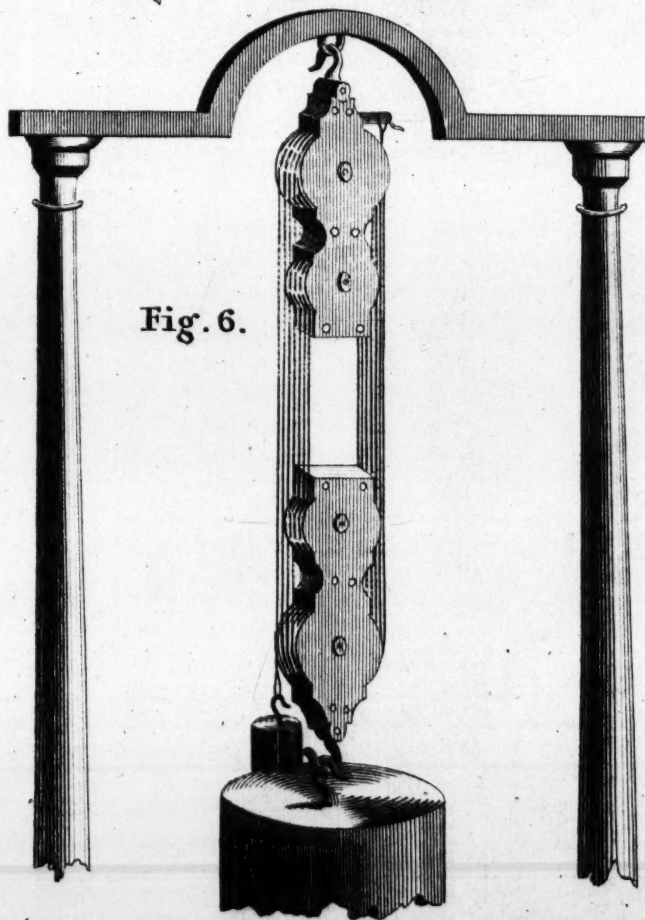
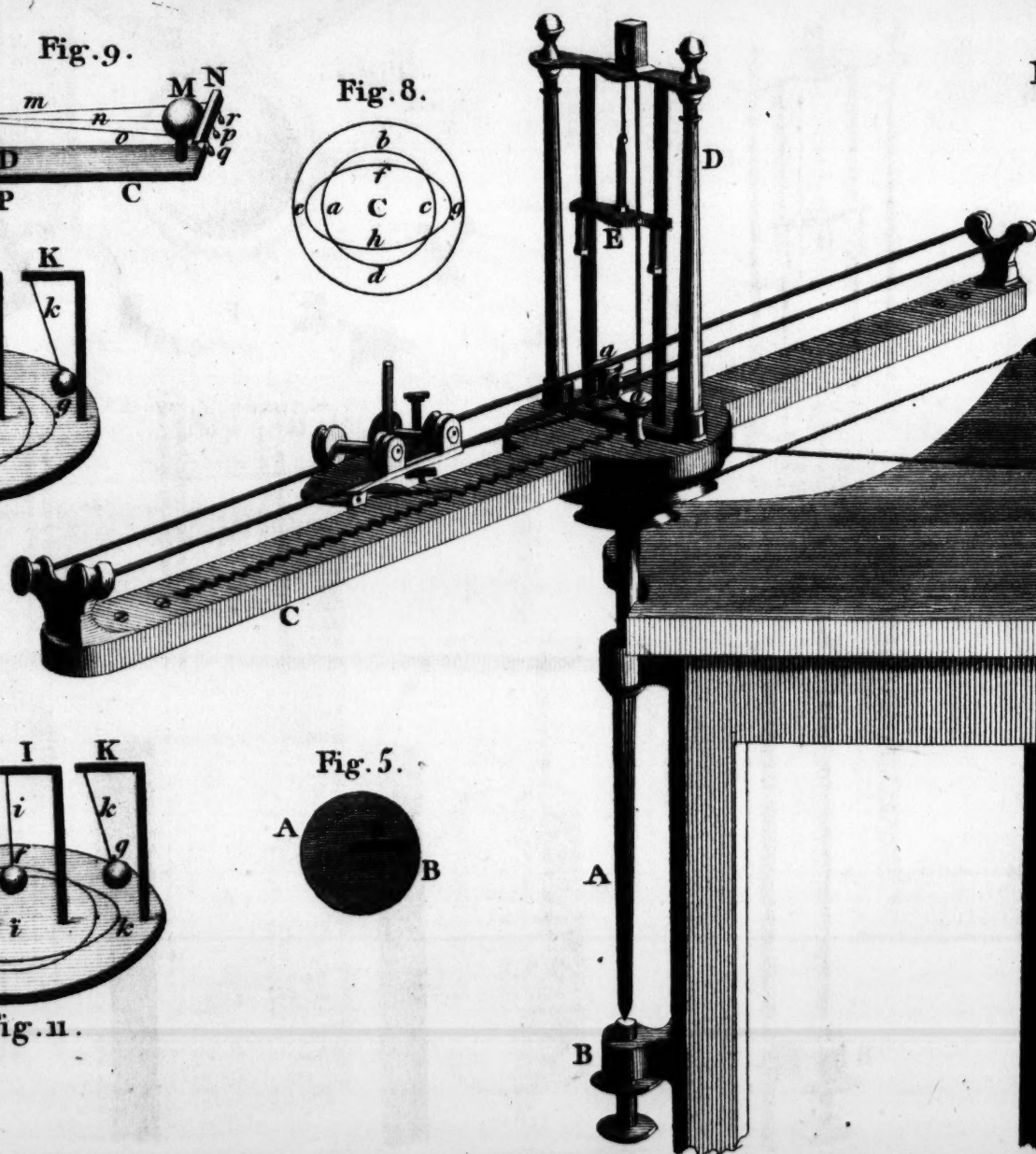
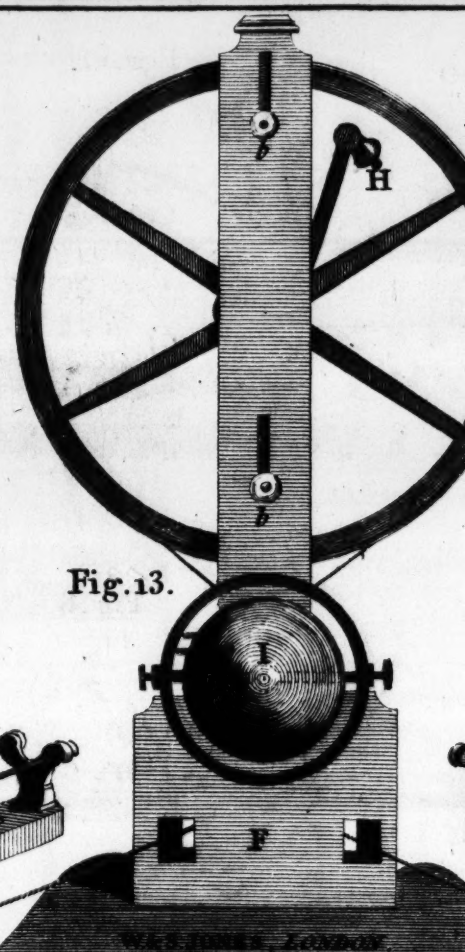
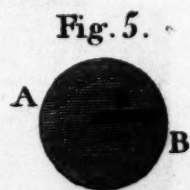
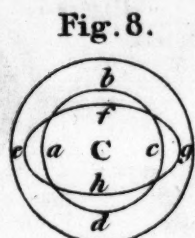
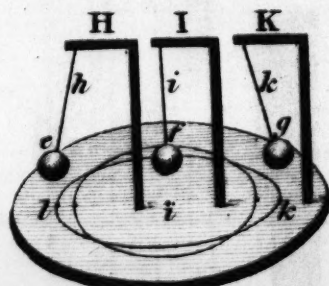
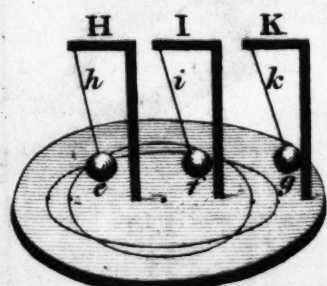
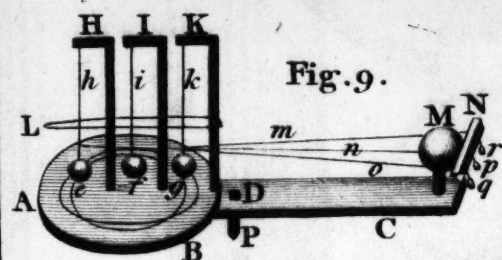
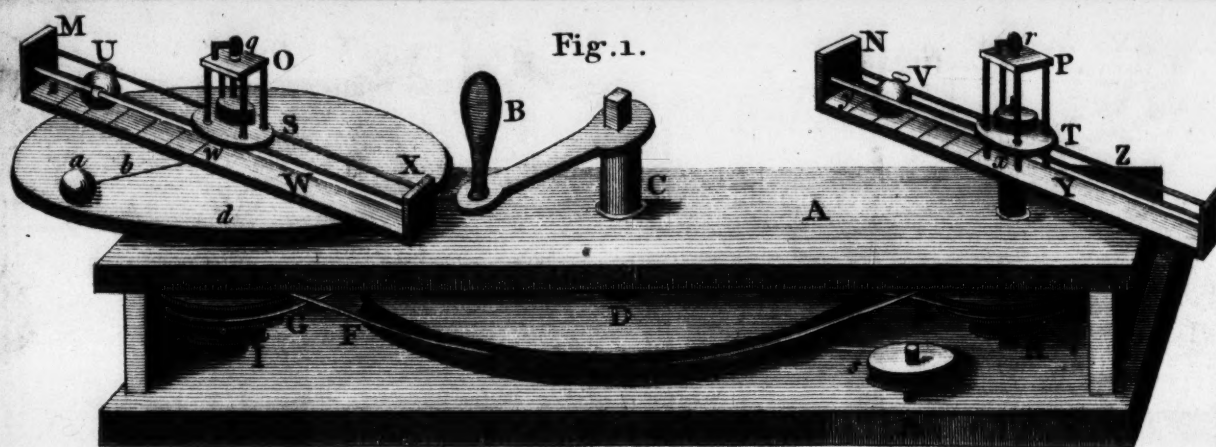
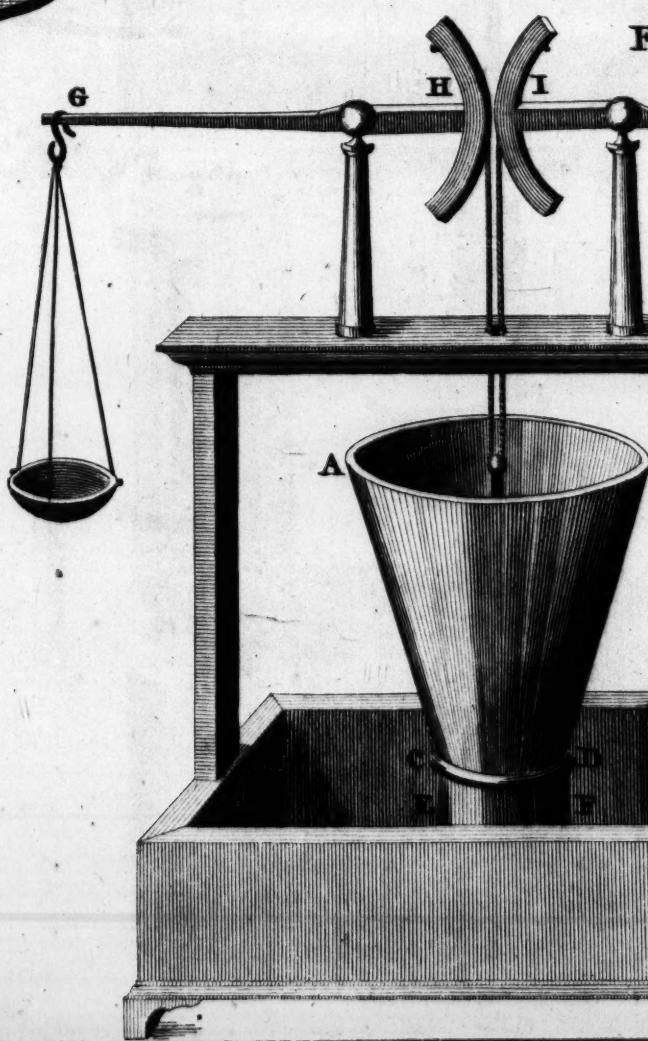
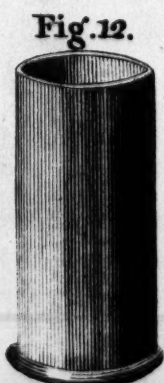
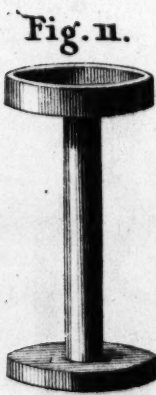
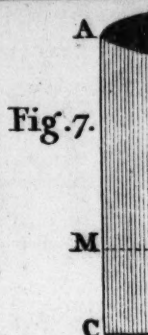
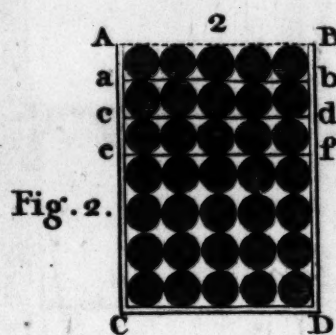
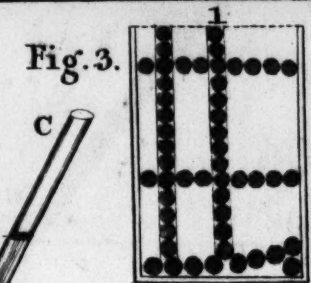
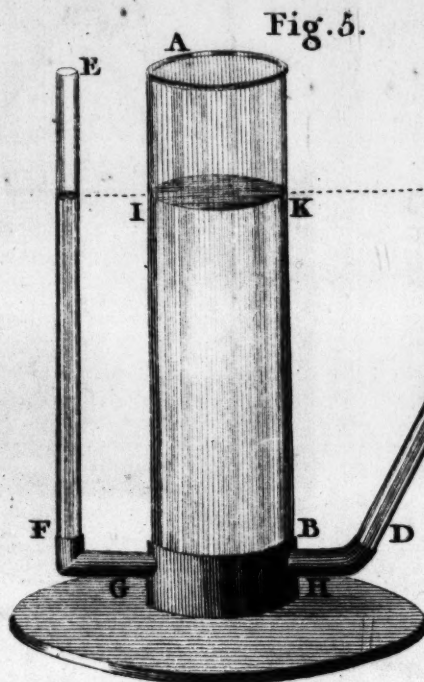
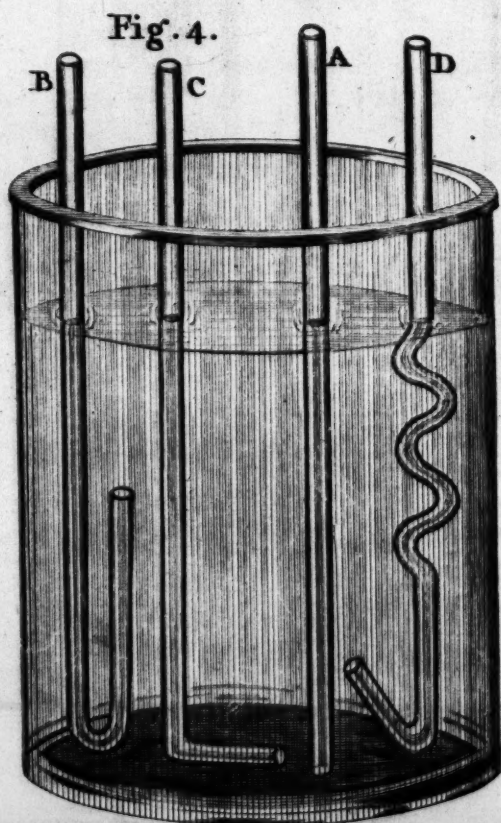
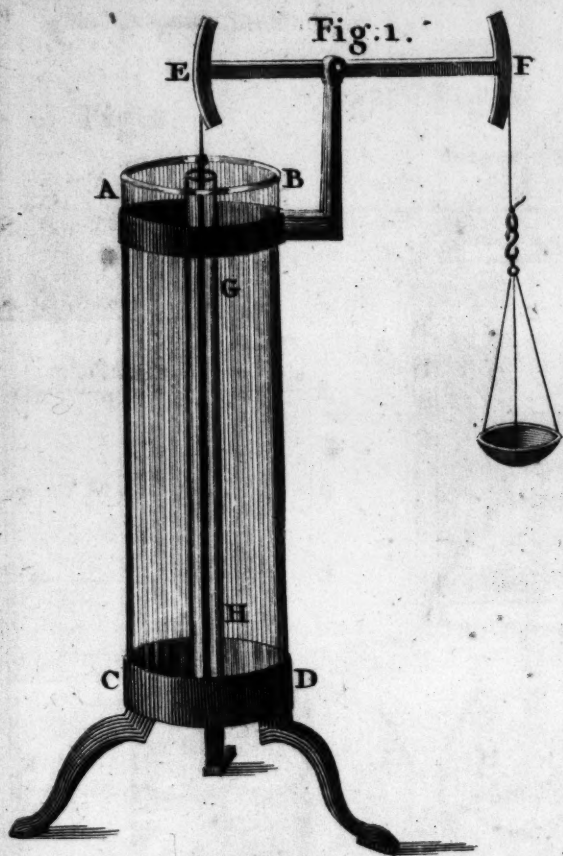


Fig. 6.





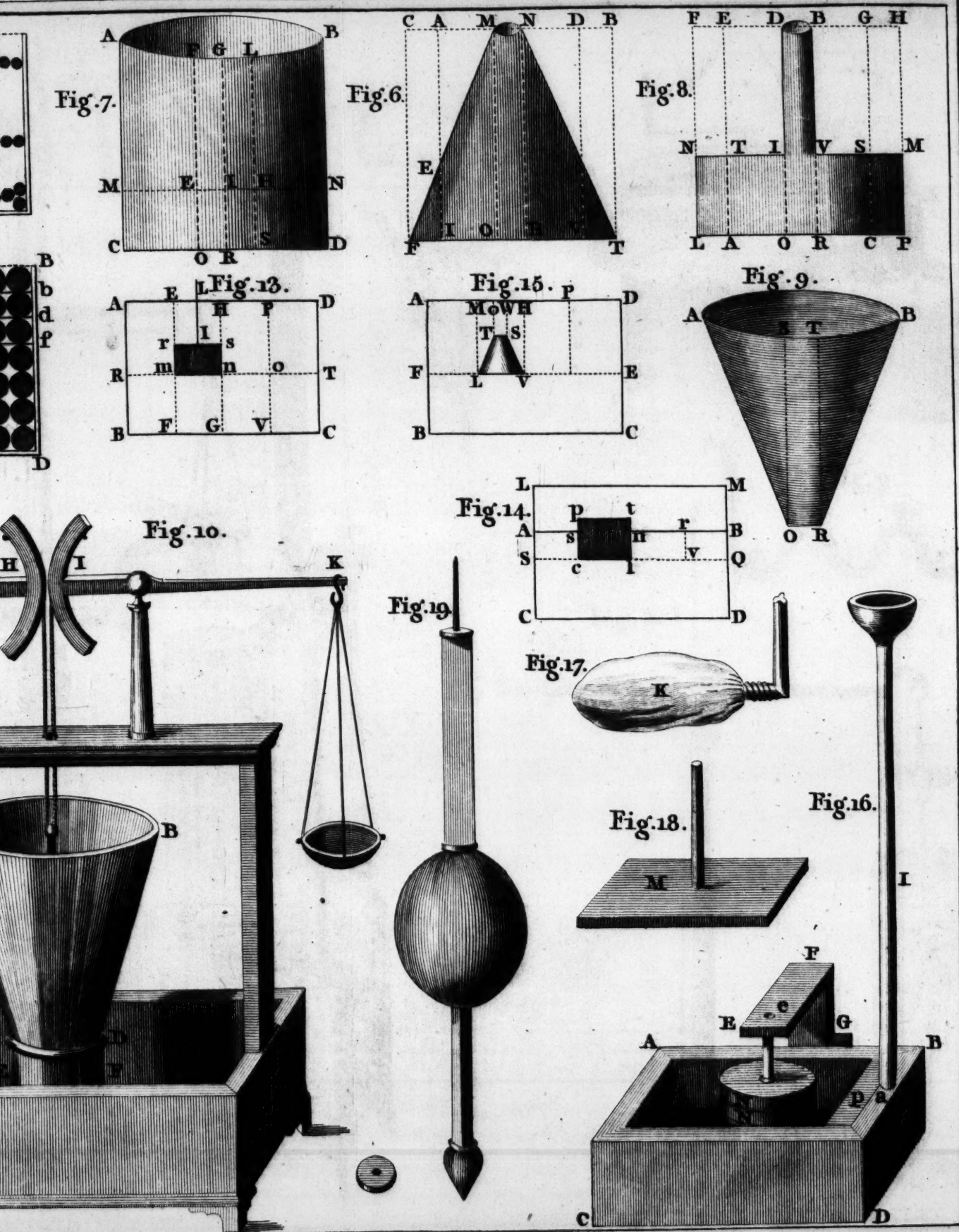




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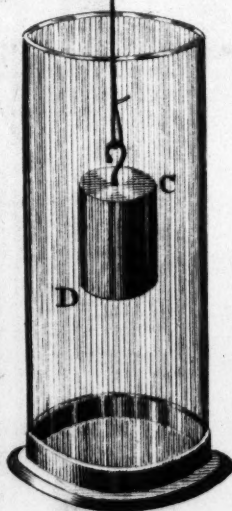


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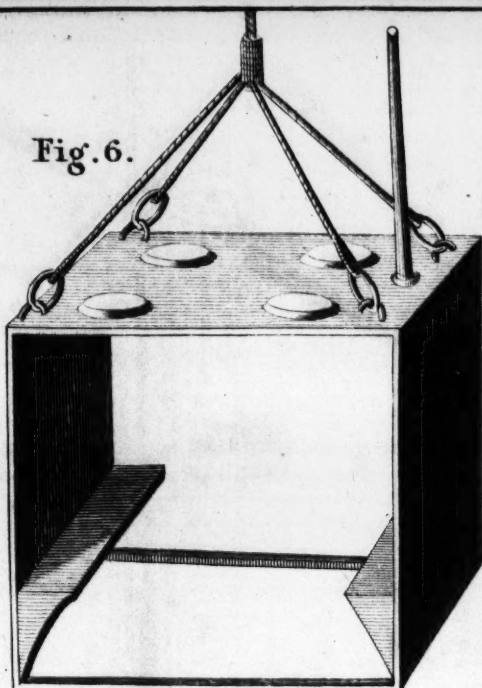


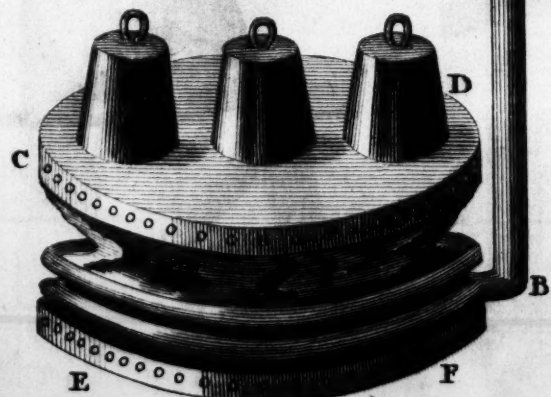
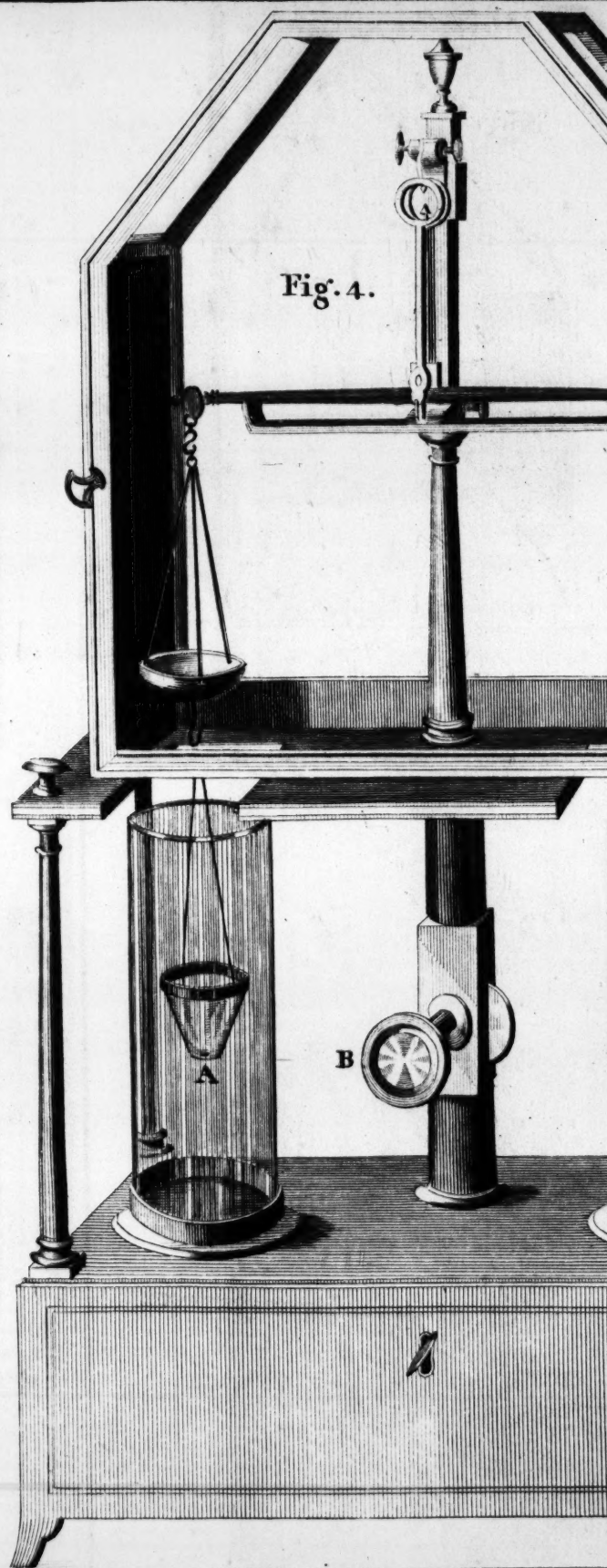
Fig. 1.



Fig. 5.



Fig. 4.



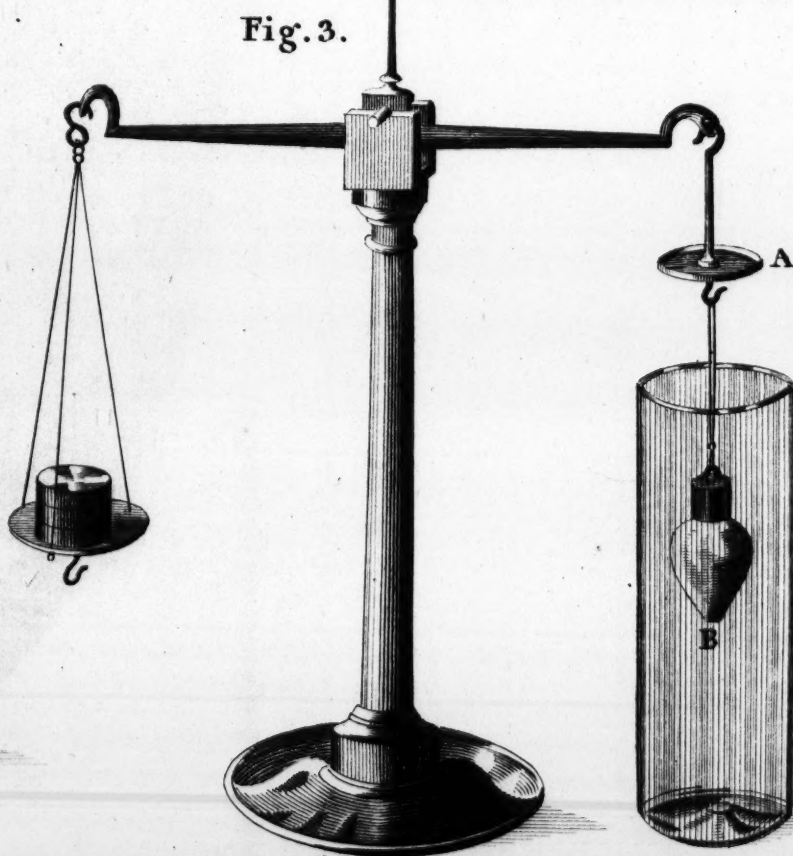
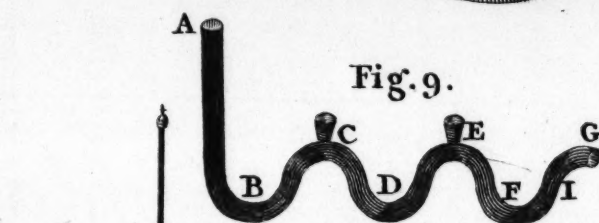
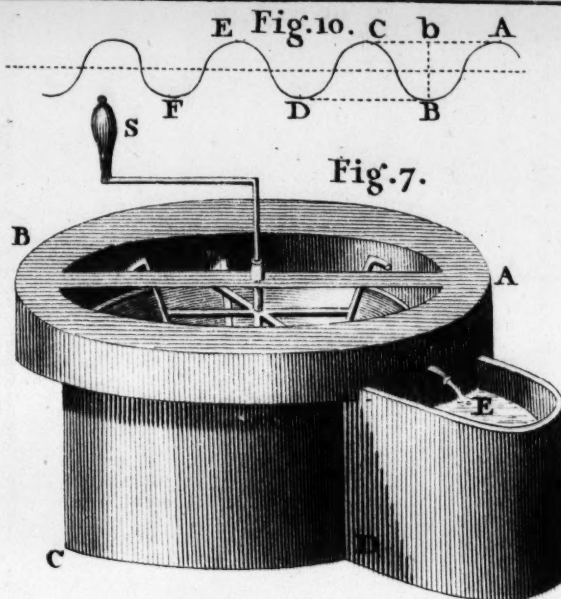
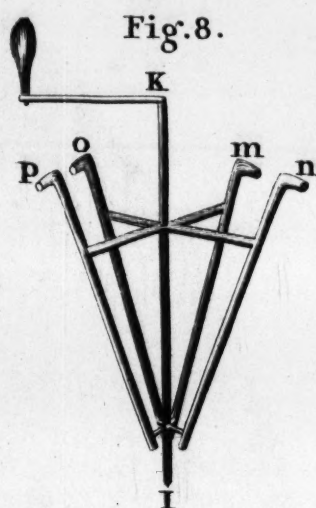
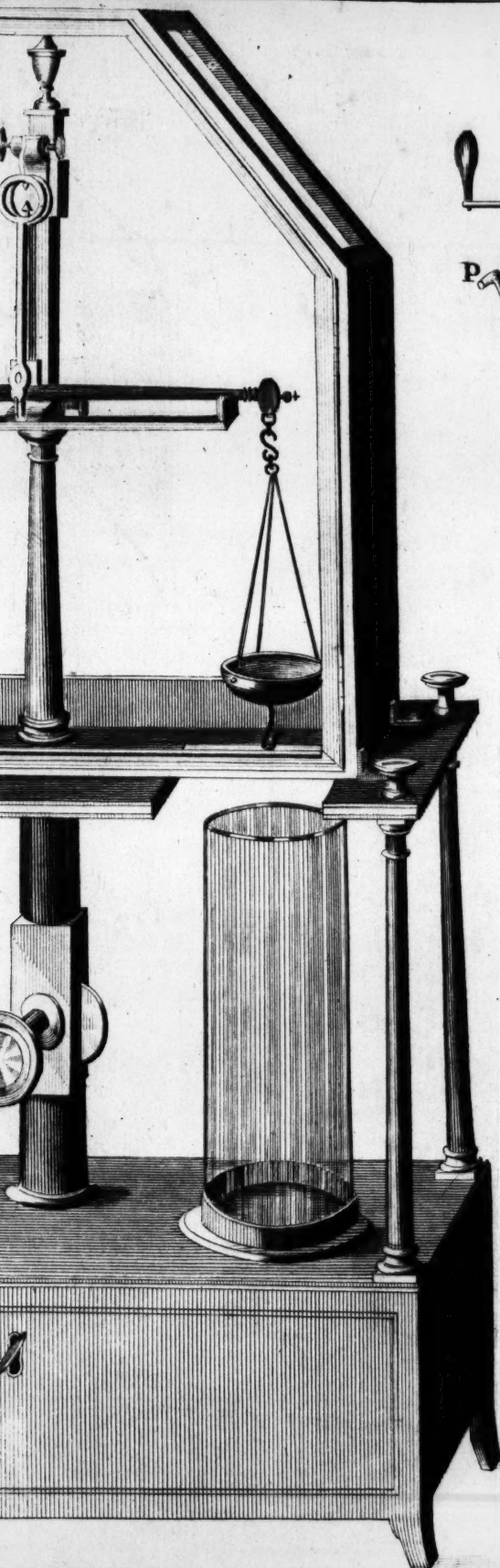


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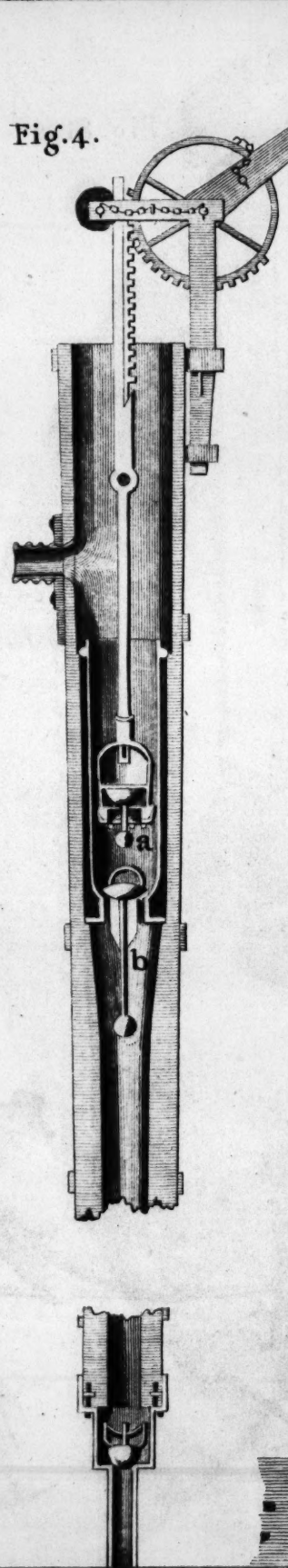


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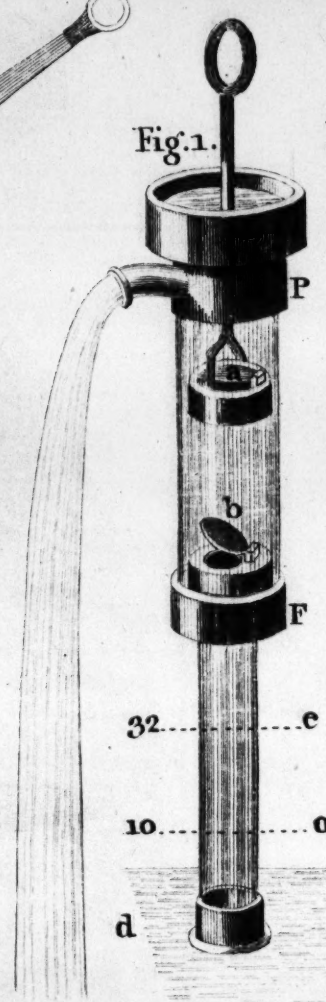


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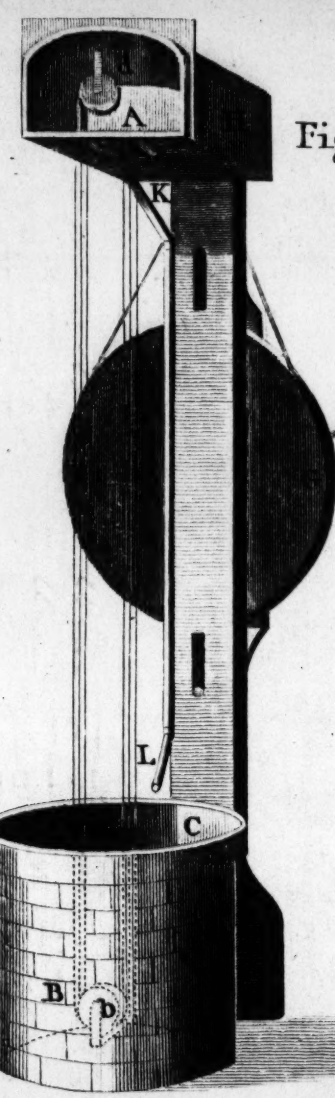
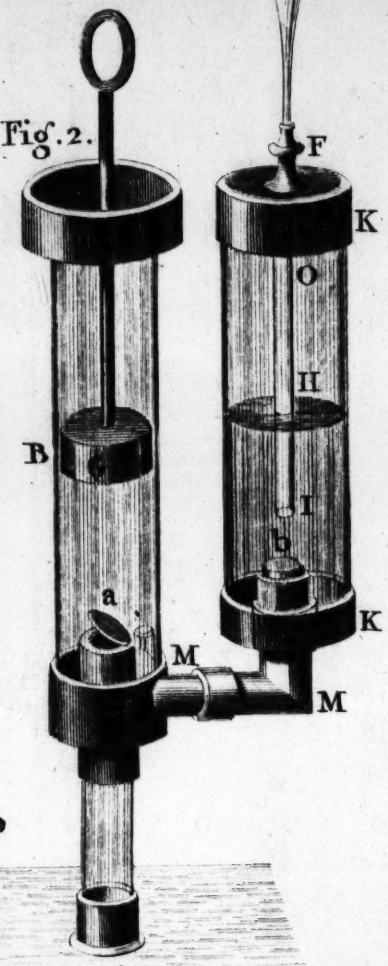


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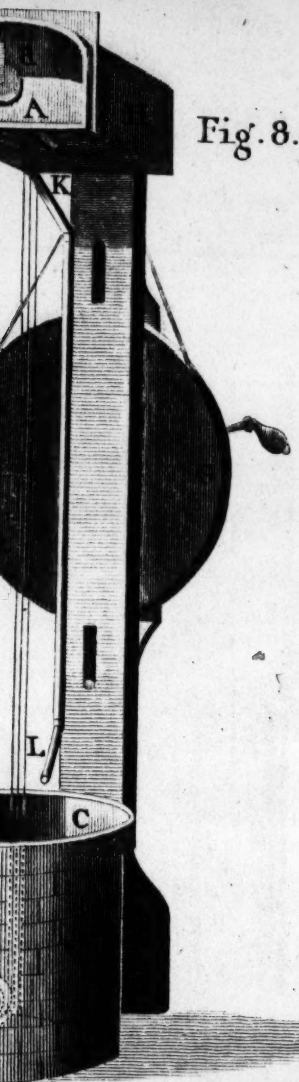


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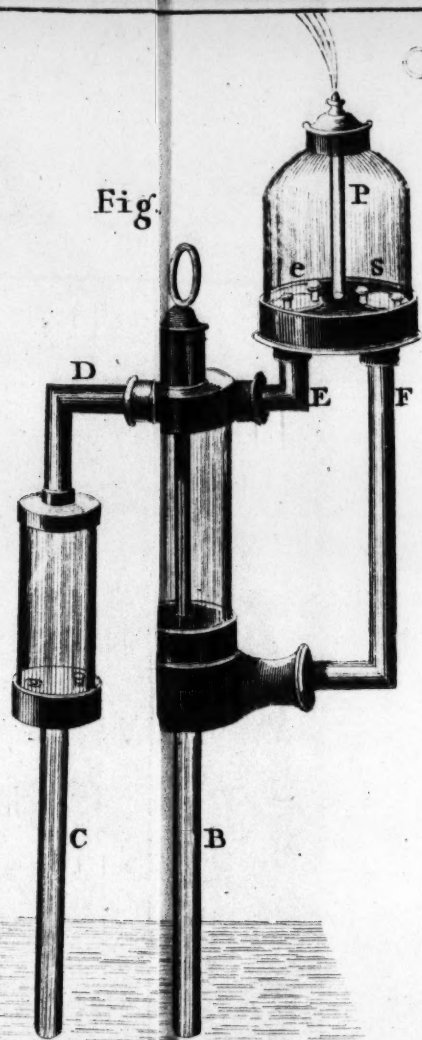


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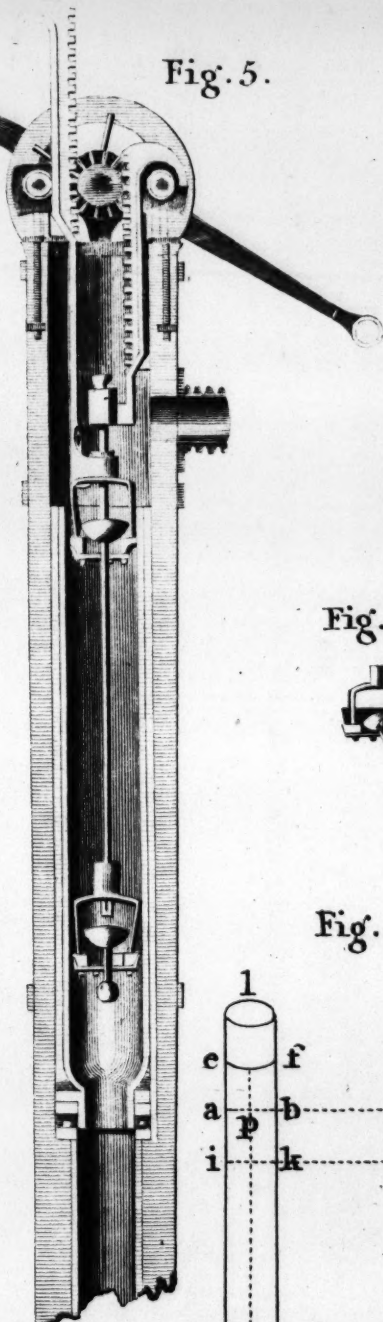


Fig. 5.

Fig. 7.



Fig. 9.

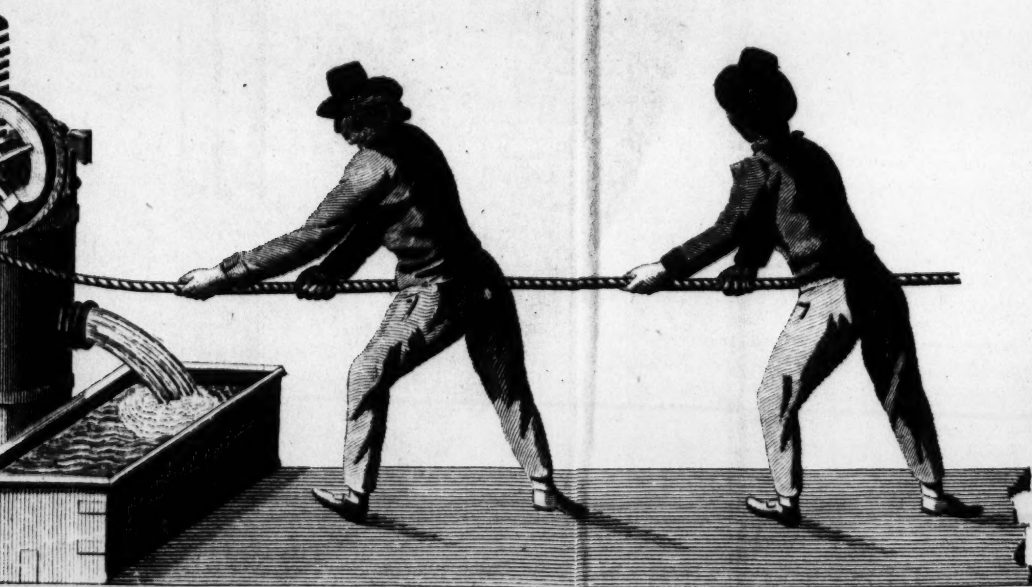
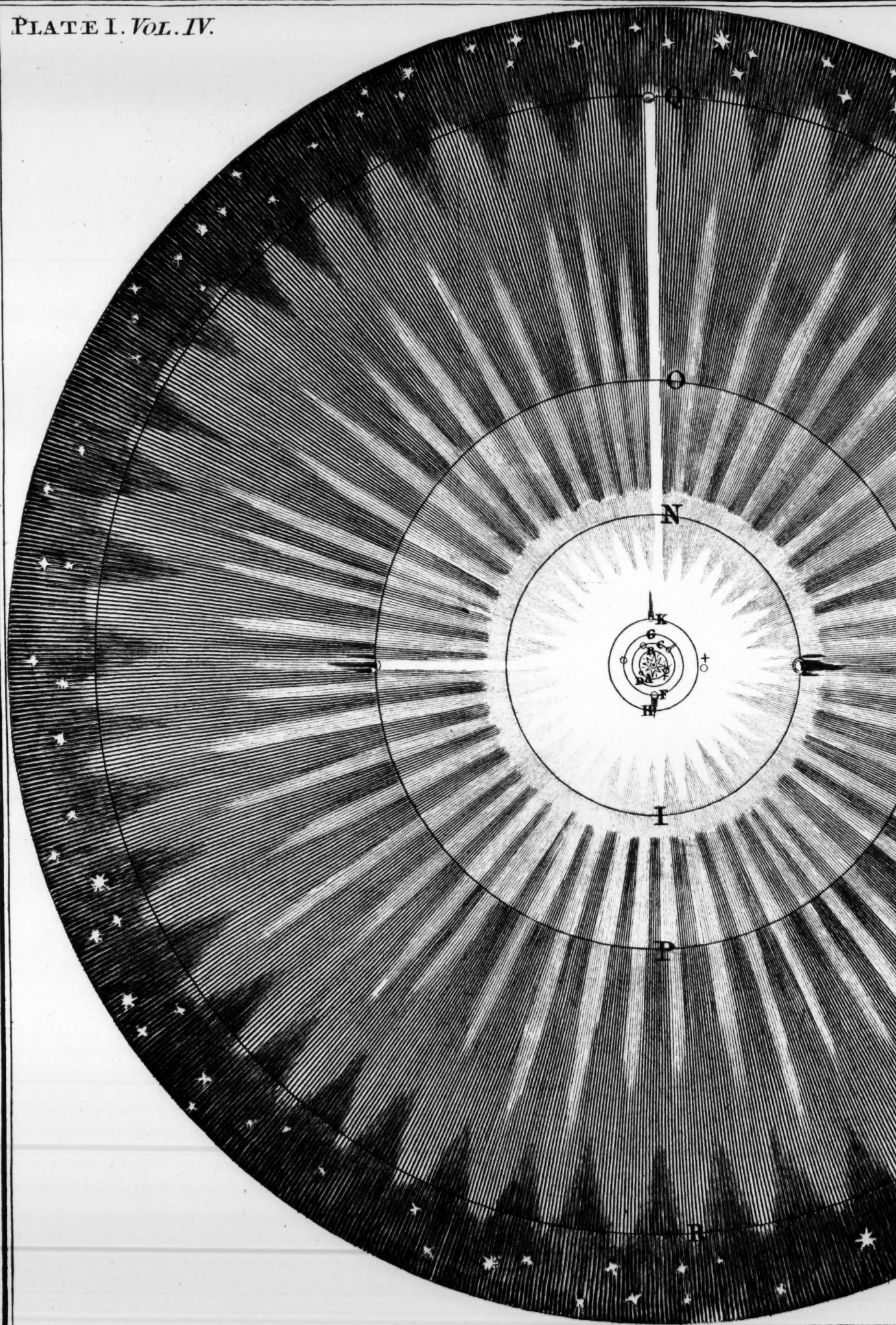
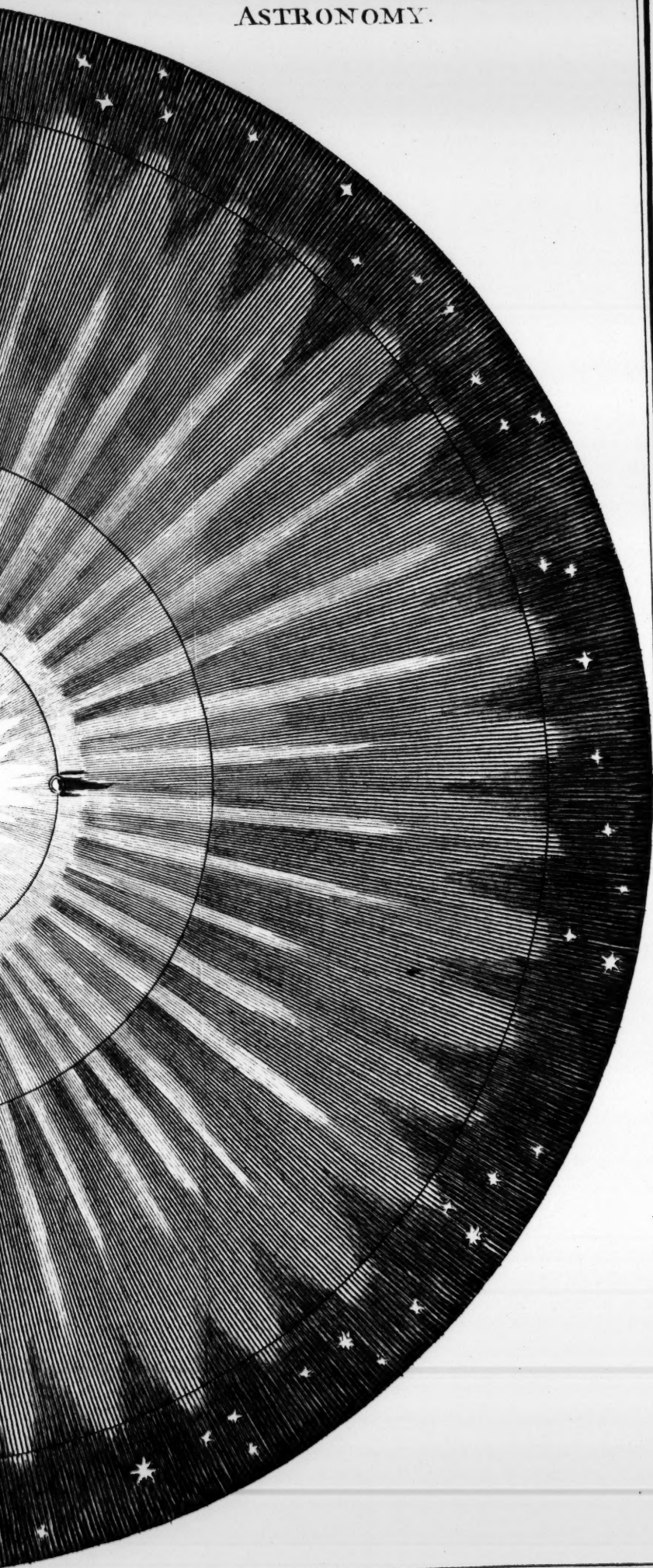


PLATE I. VOL. IV.



ASTRONOMY.



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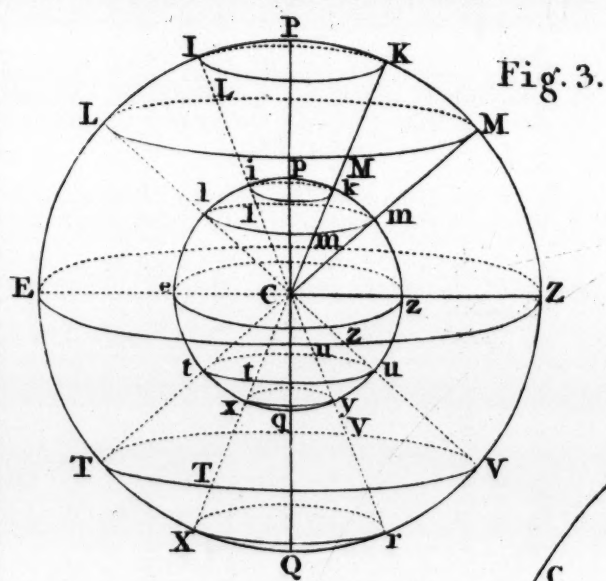


Fig. 3.

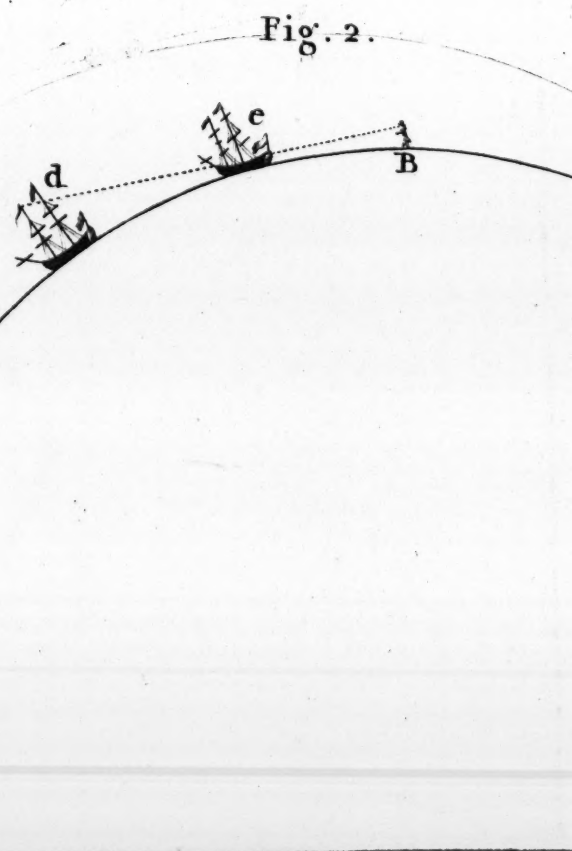
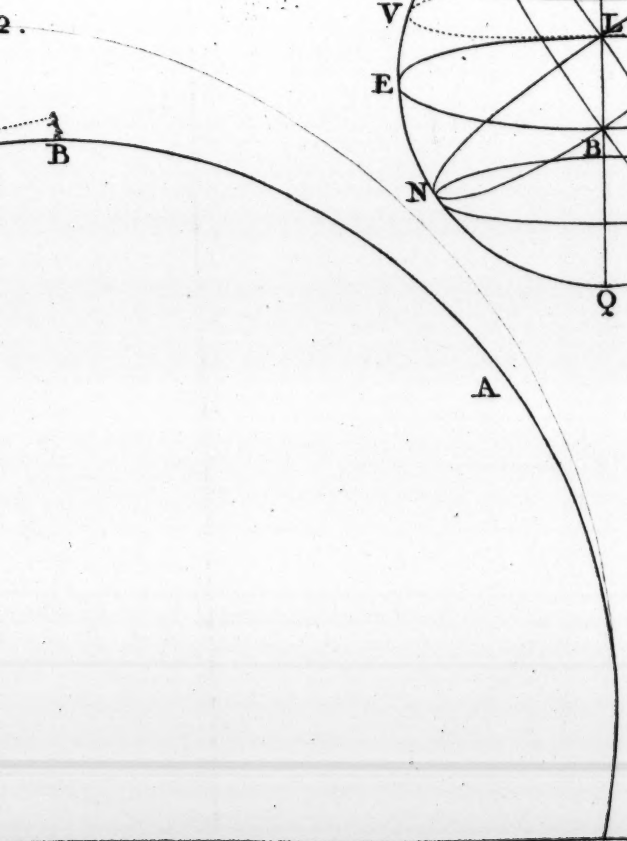
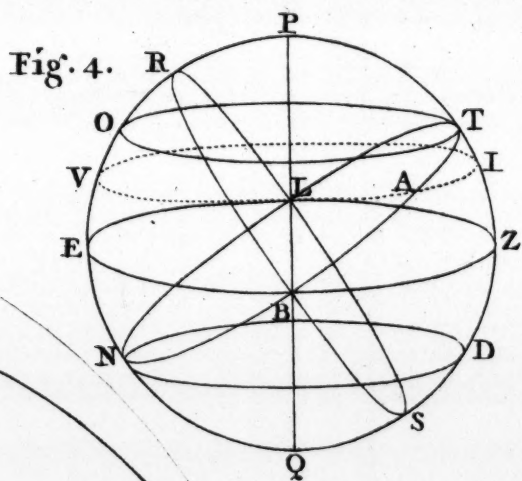


Fig. 2.

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Holborn, as the Act directs. Jan^y 1st 1799.

Fig.1.

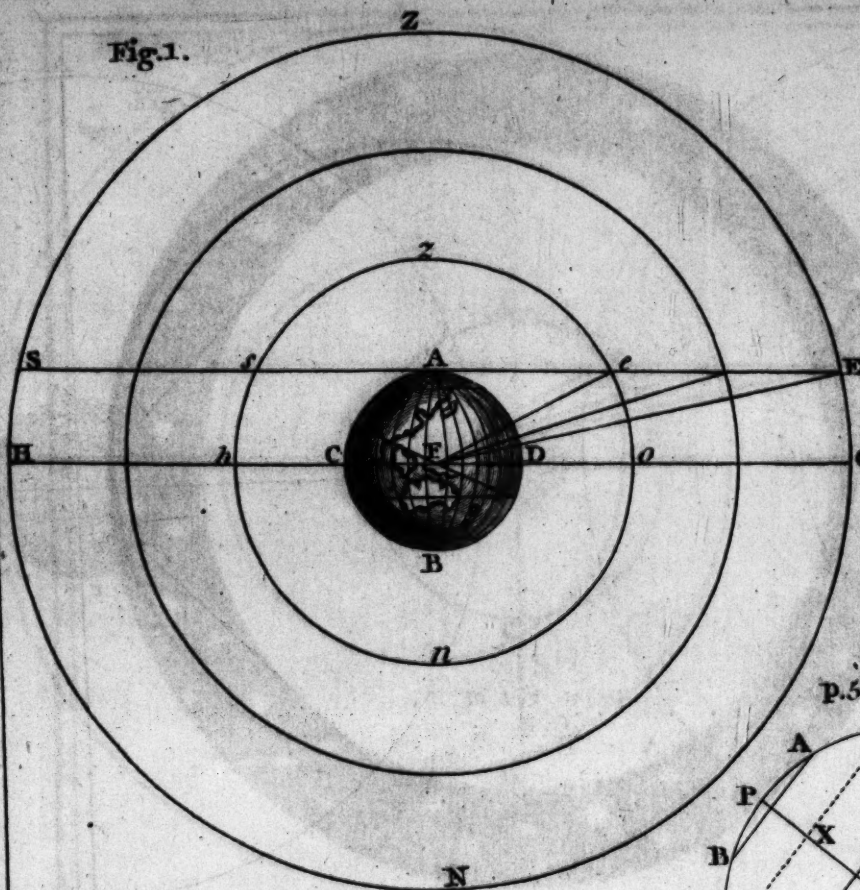


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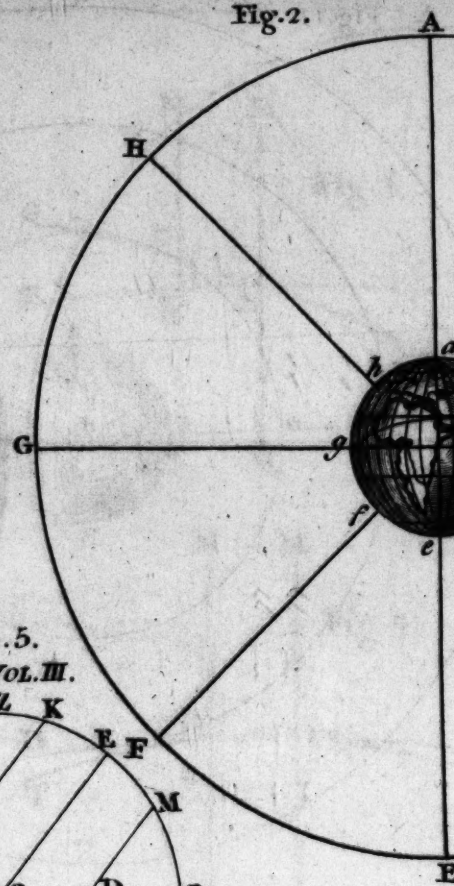


Fig.5.
p.521. VOL. III.

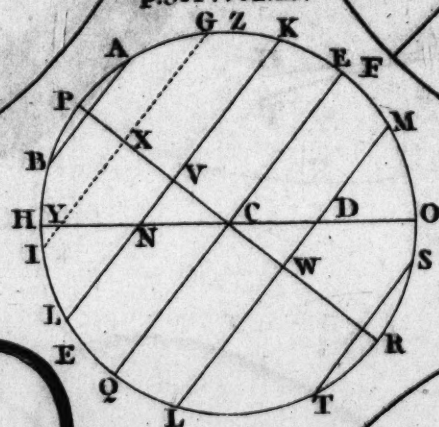


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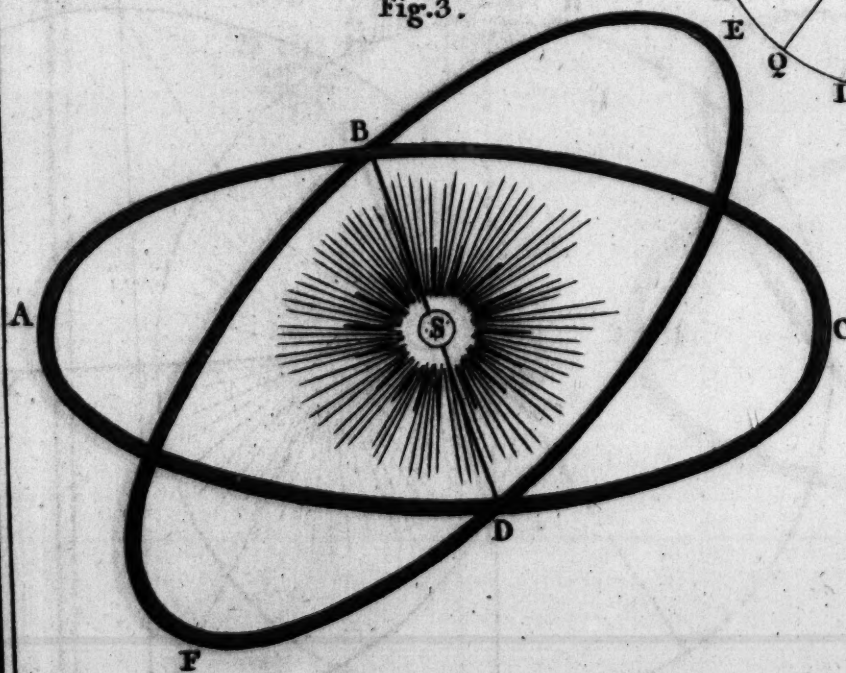


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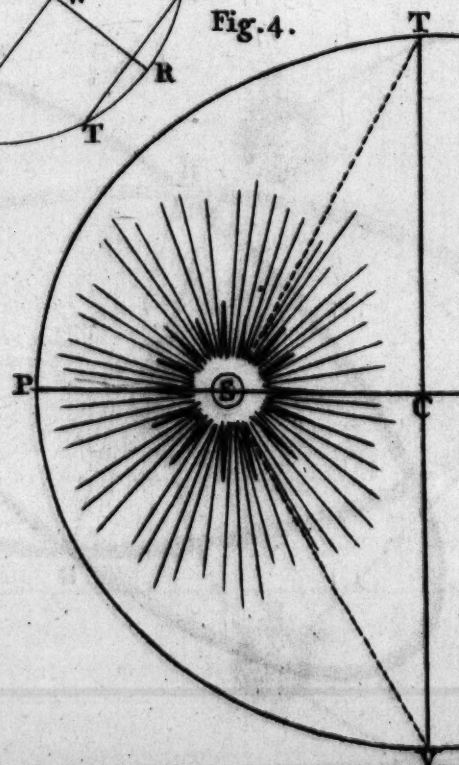


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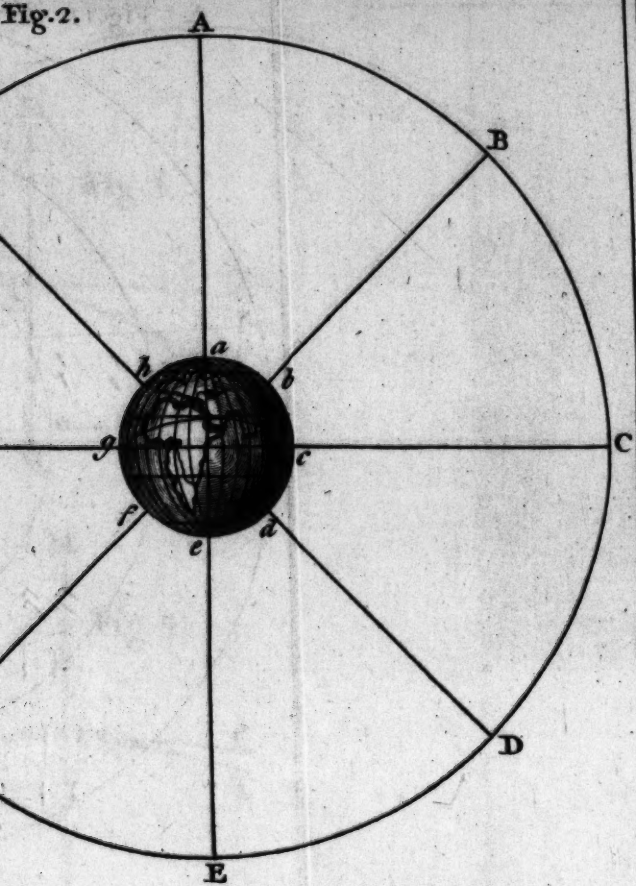
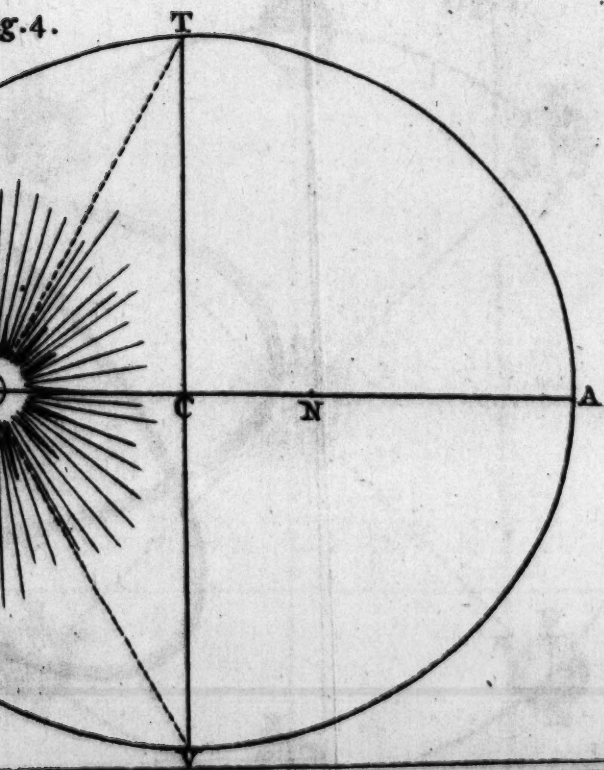


Fig. 4.



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directs, January 1st 1799.

Fig. 1.

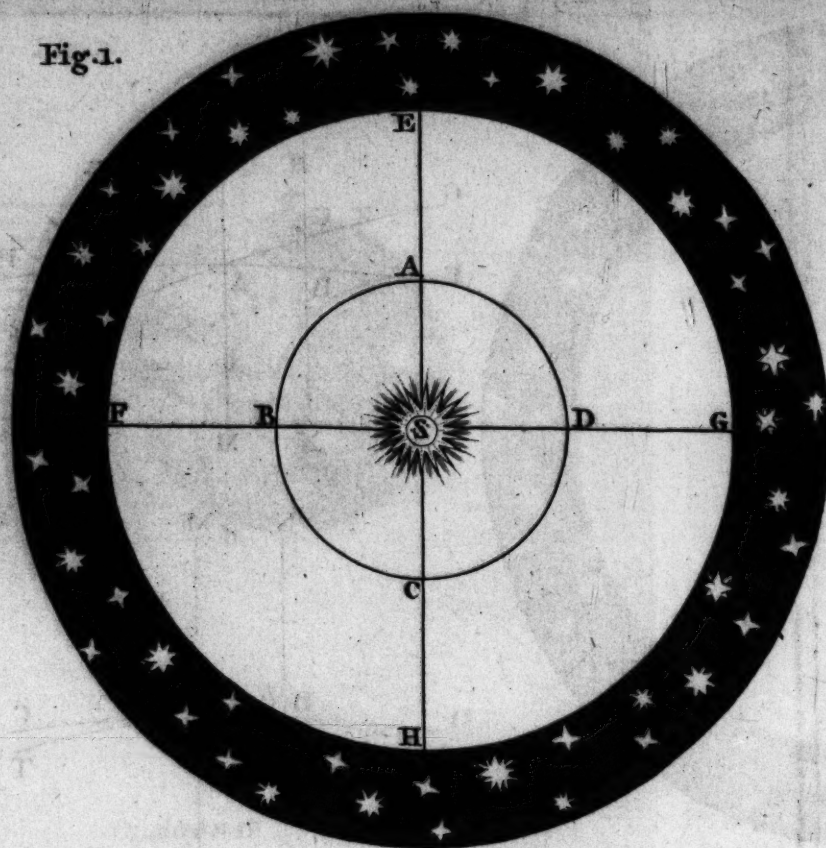


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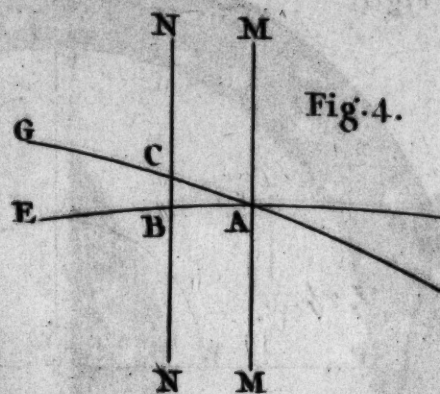


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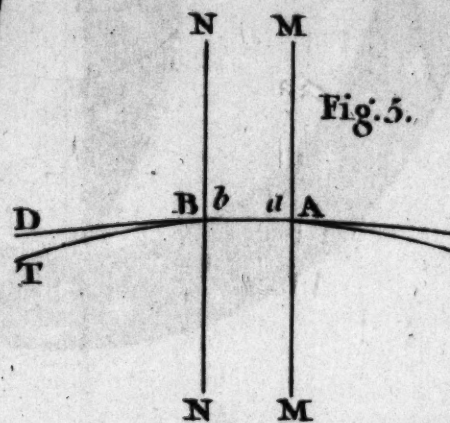
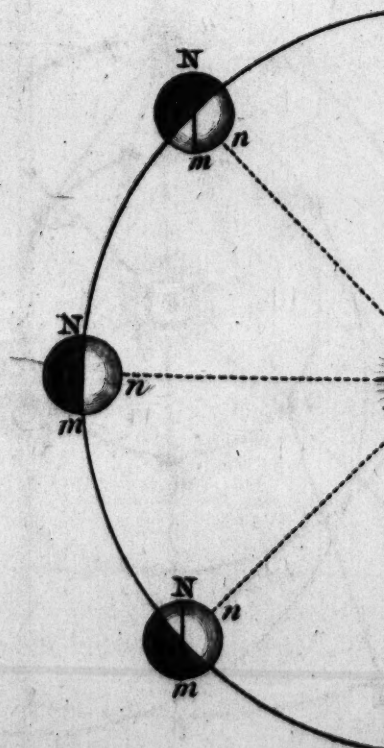
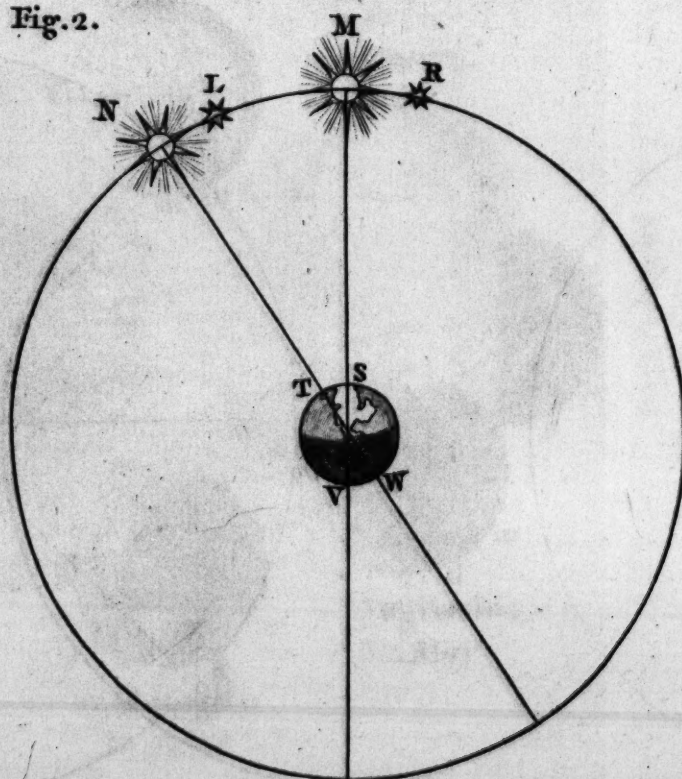


Fig. 2.



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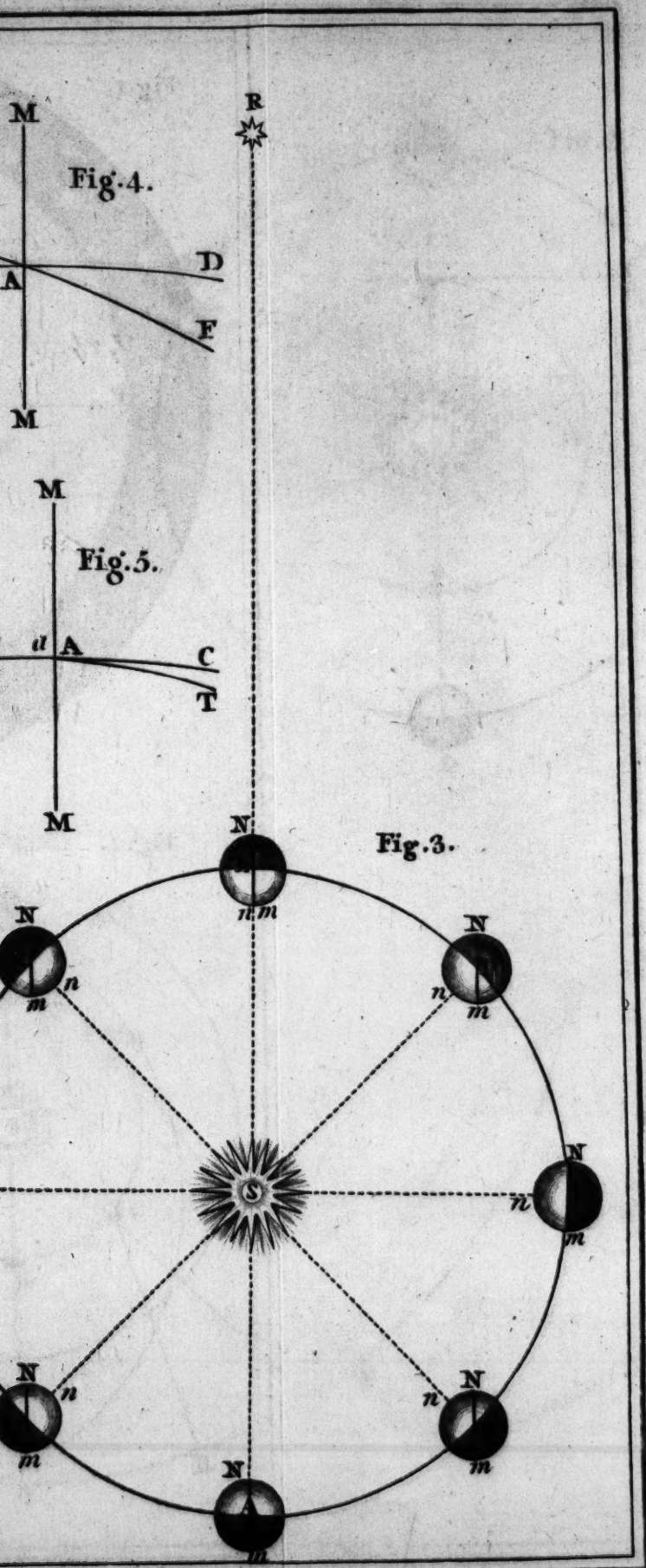


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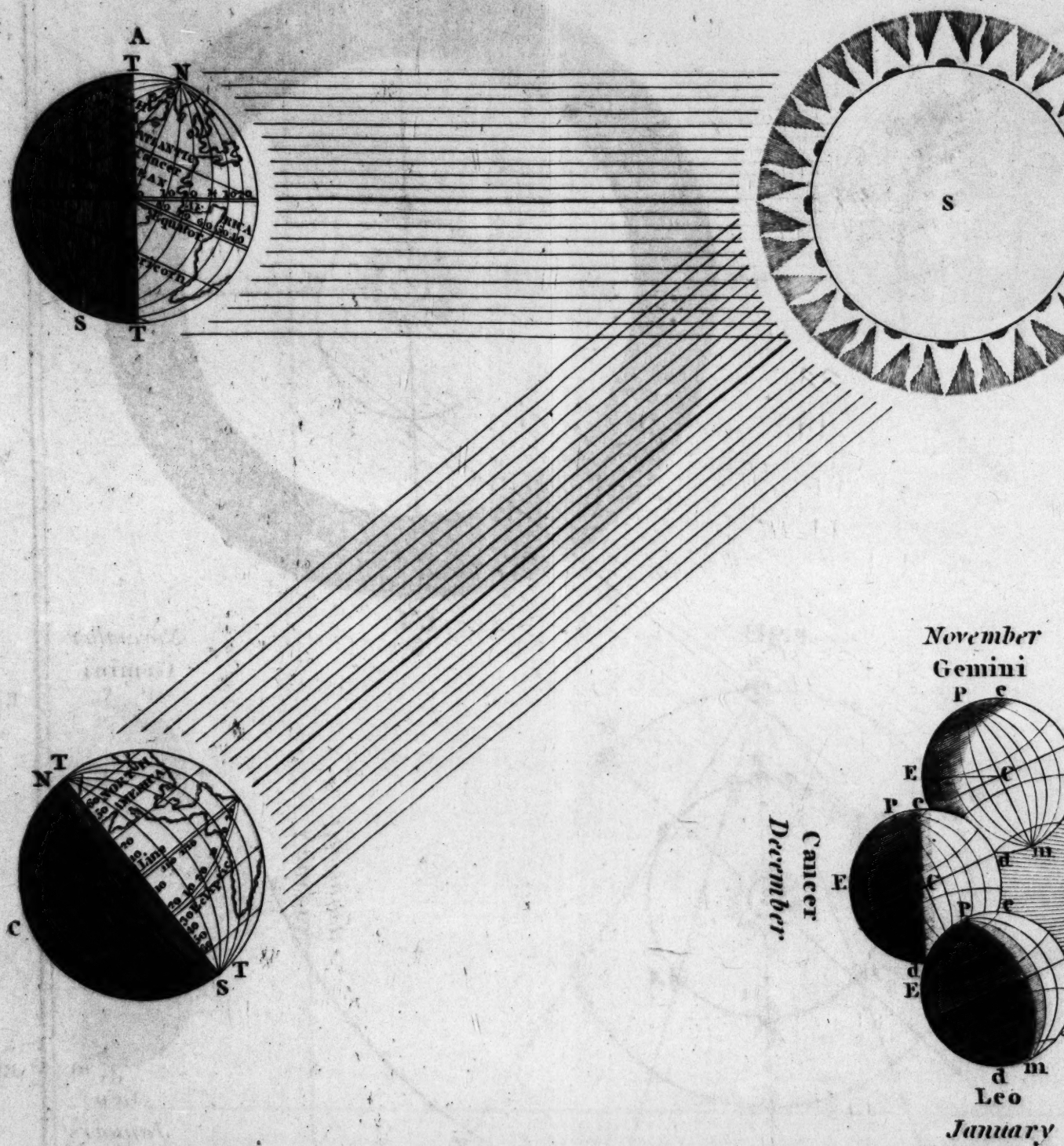


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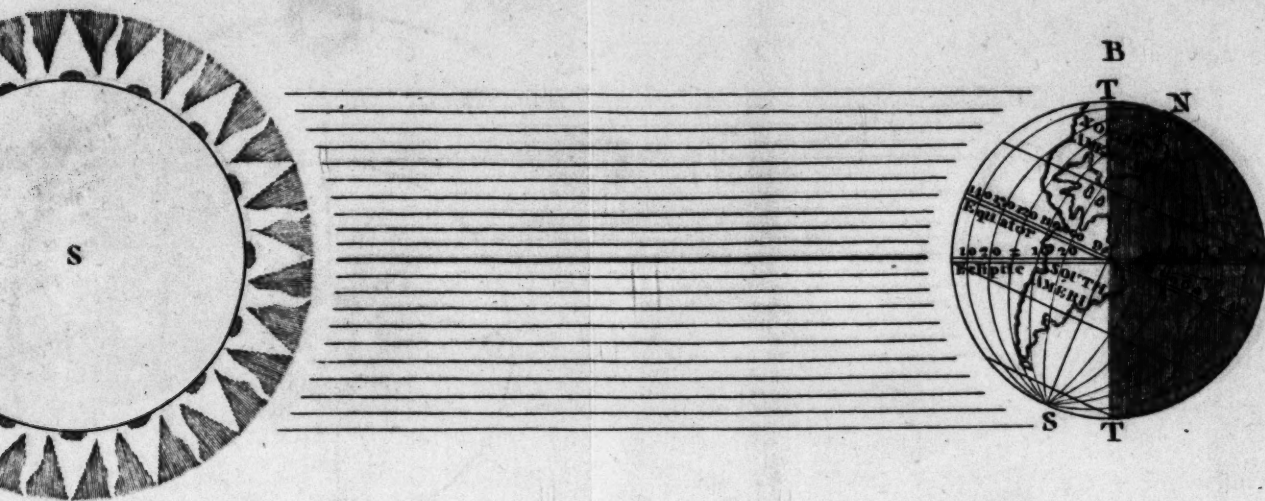


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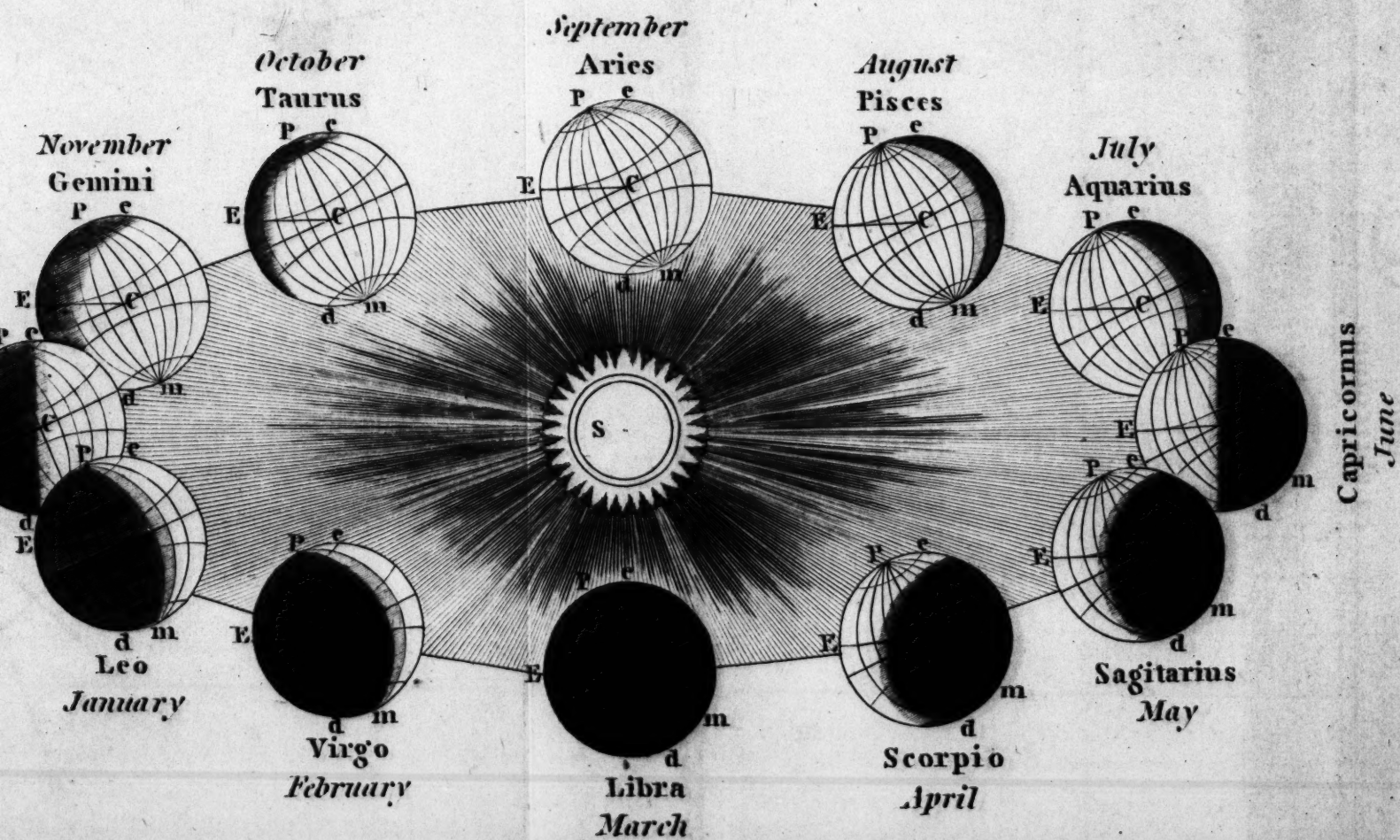


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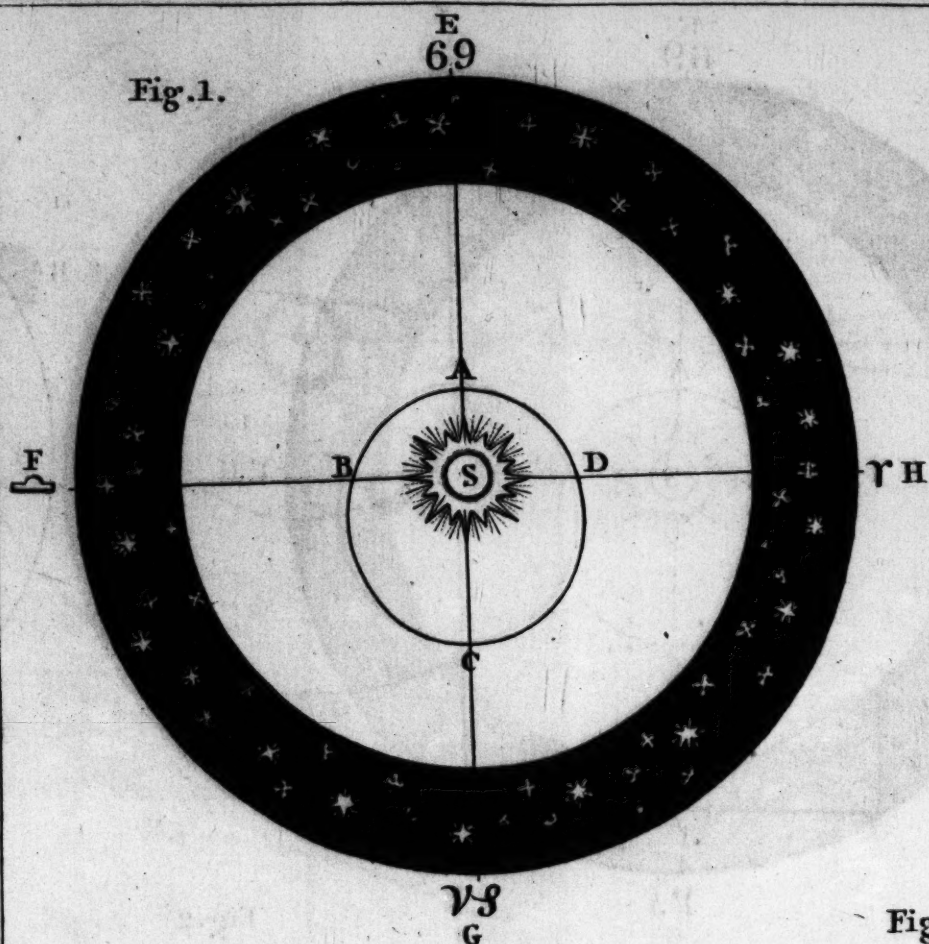


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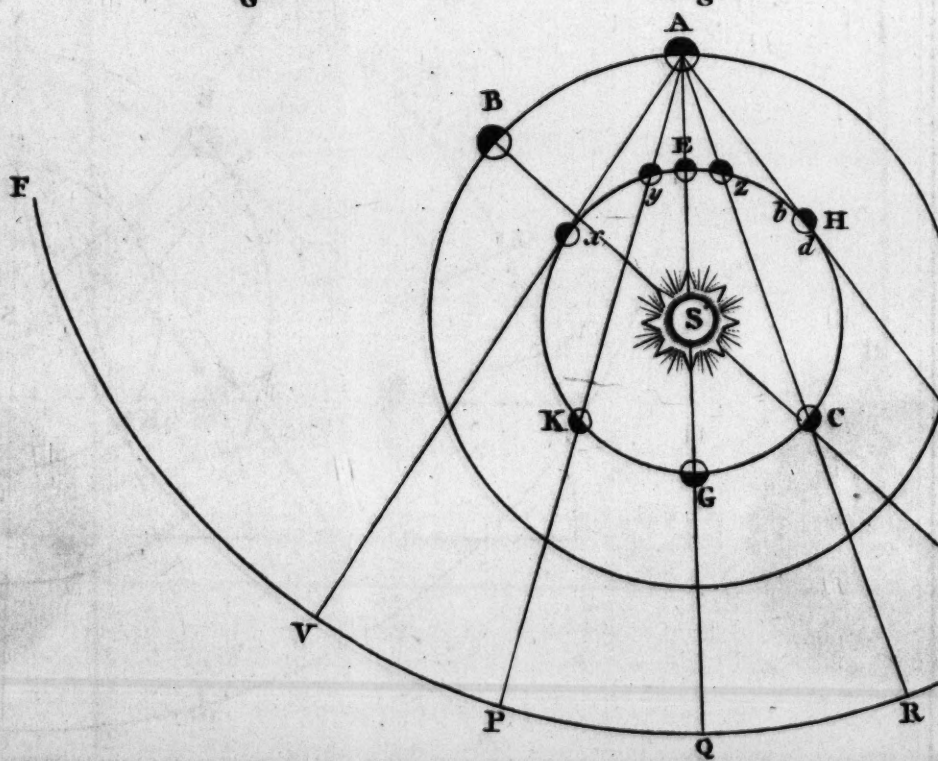
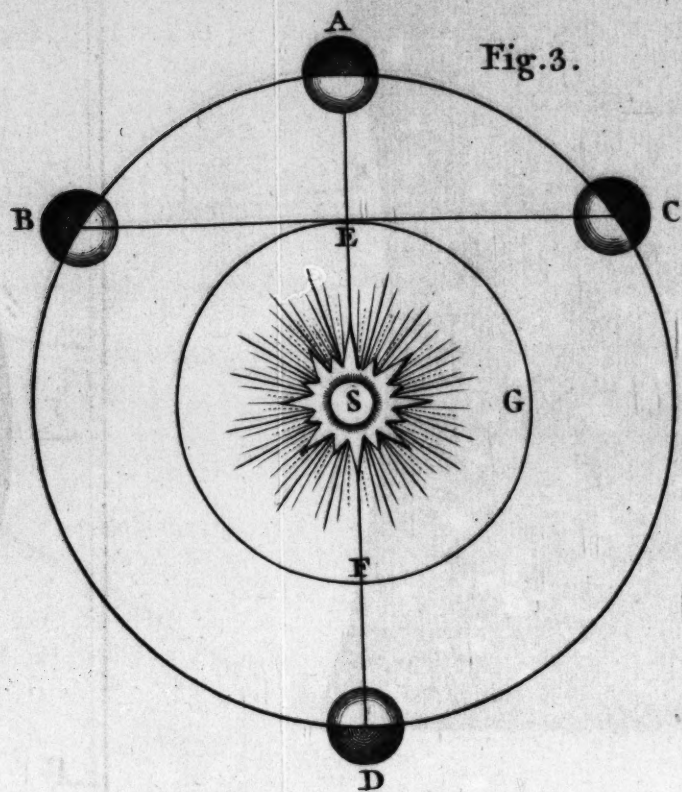
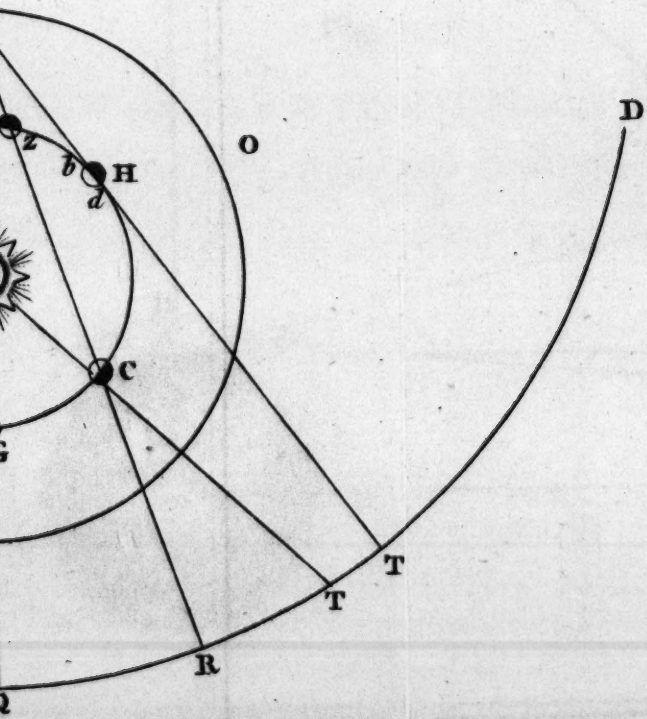


Fig. 3.



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Fig. 1.

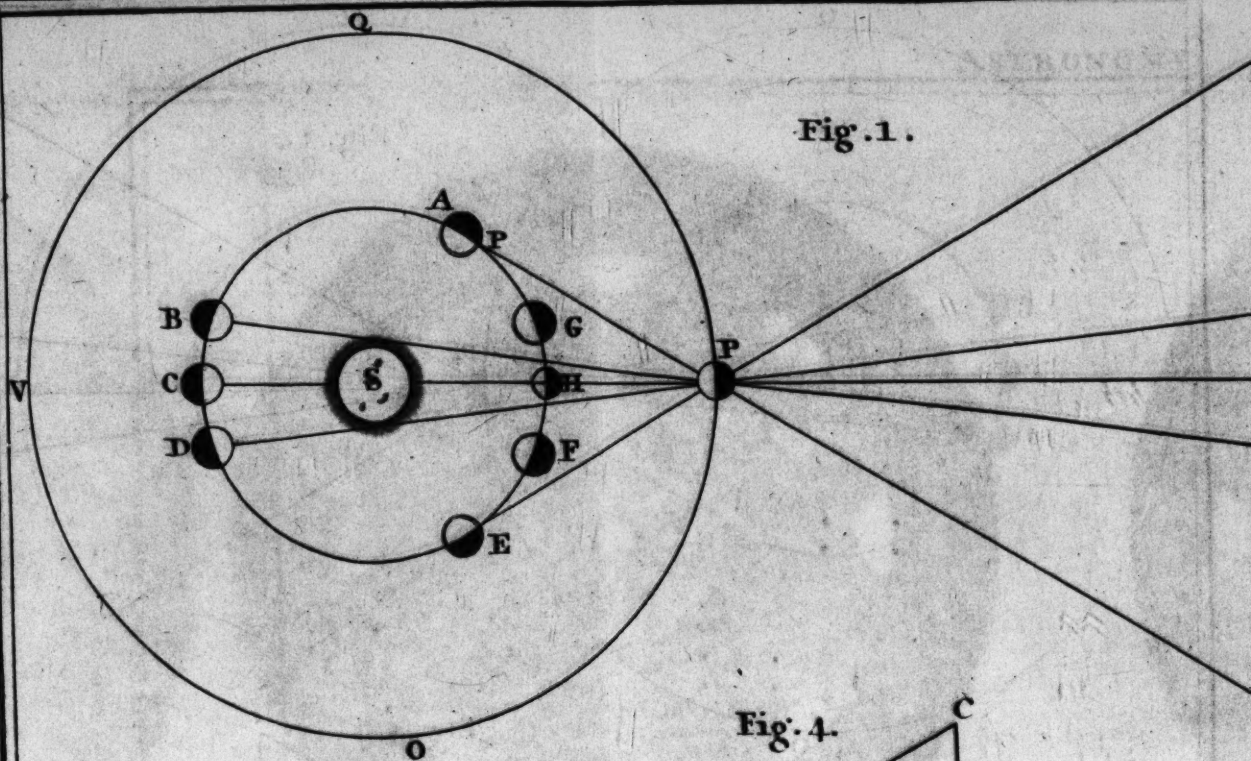


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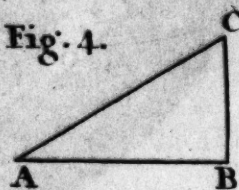
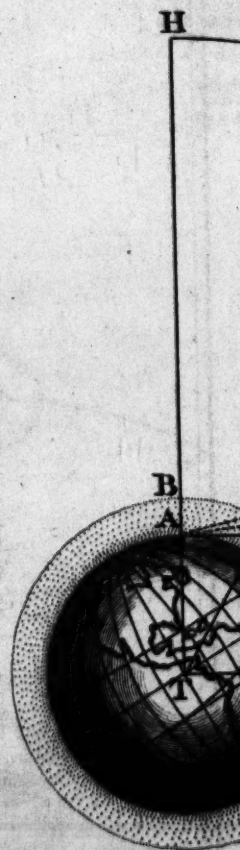
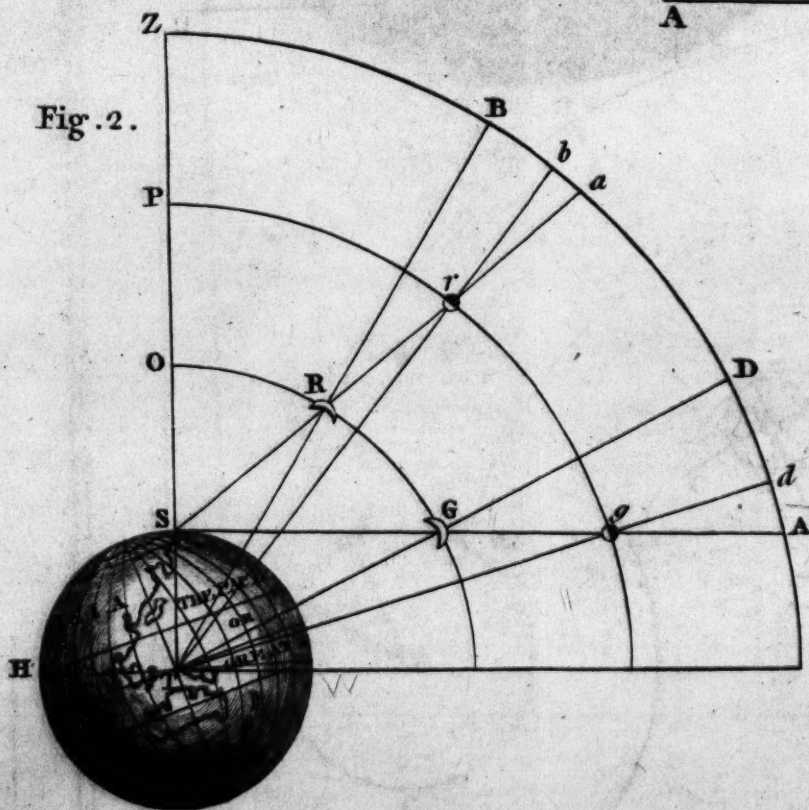


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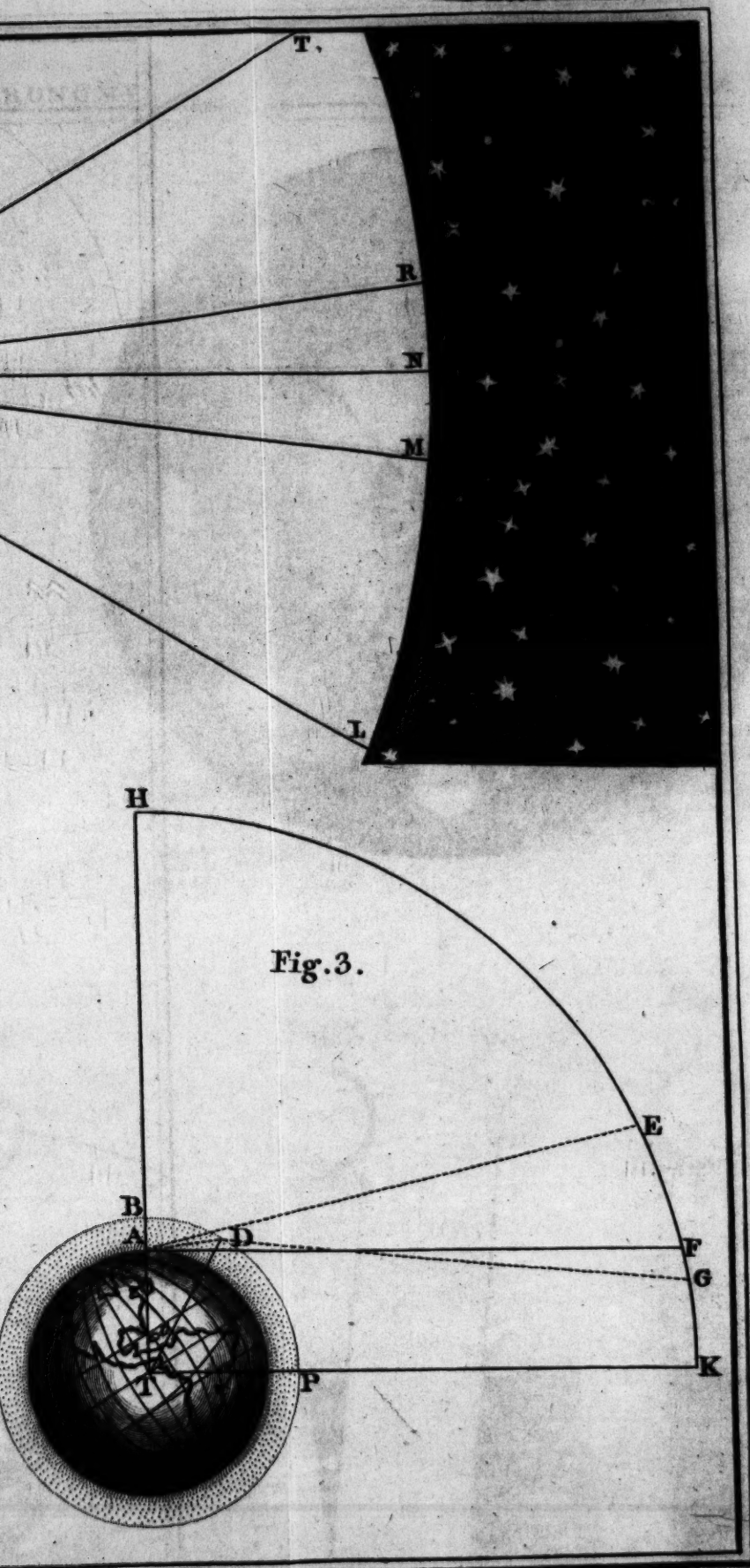


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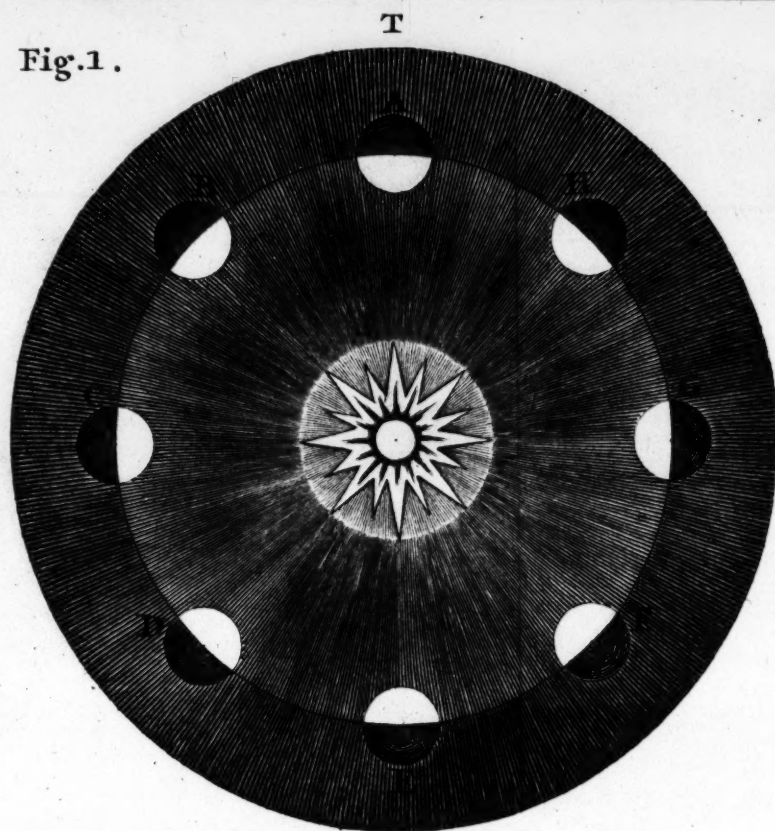


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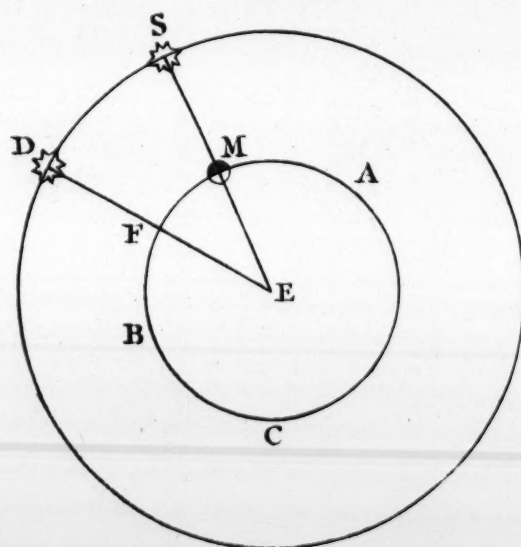
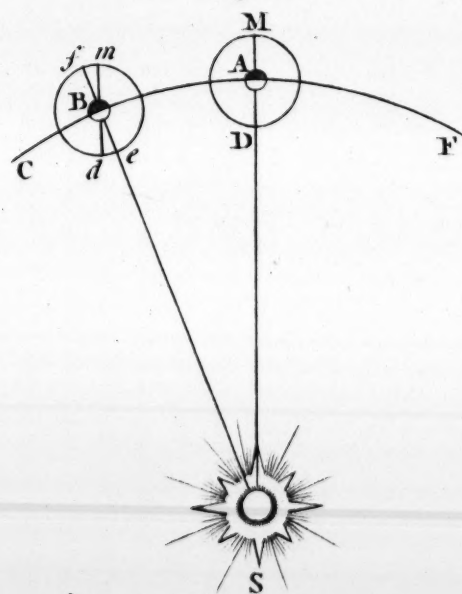


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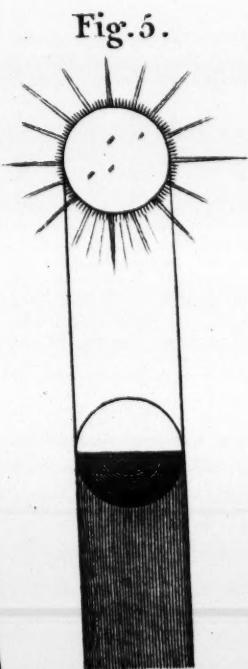
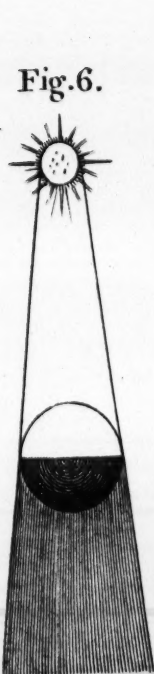
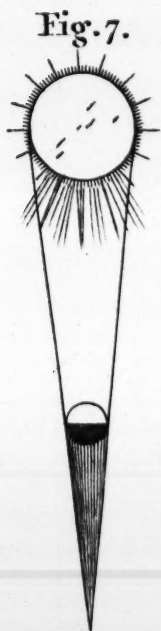
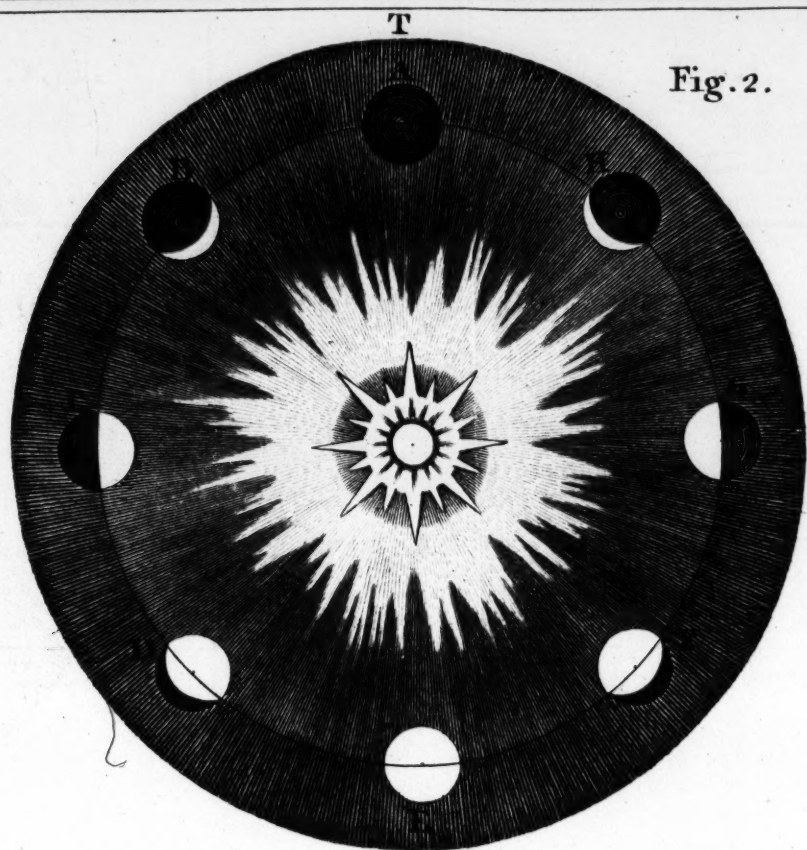
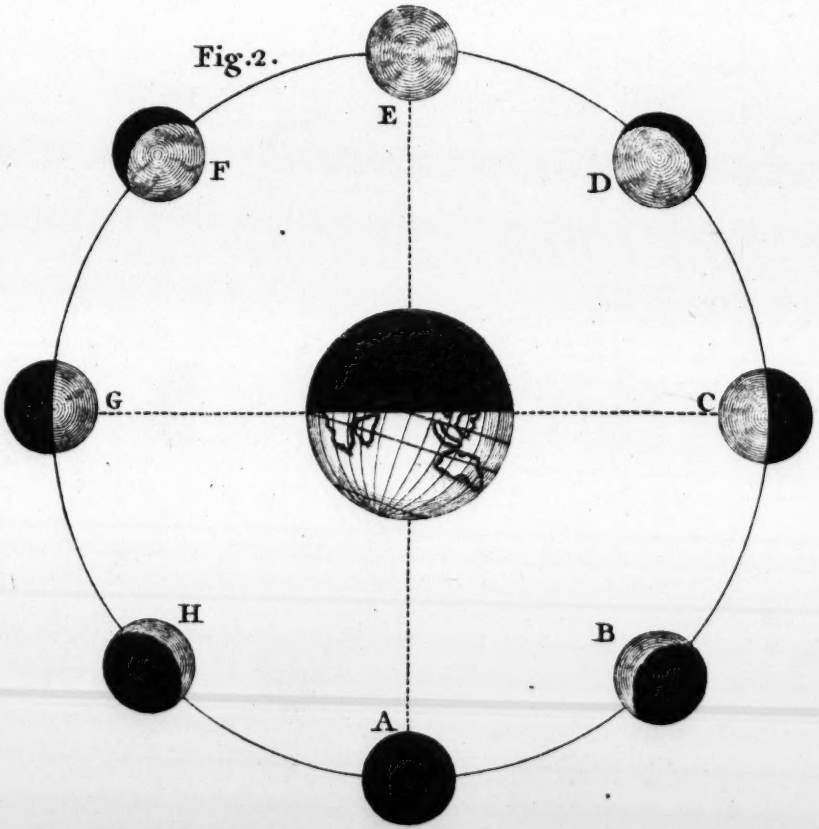


Fig.1.



Fig.2.



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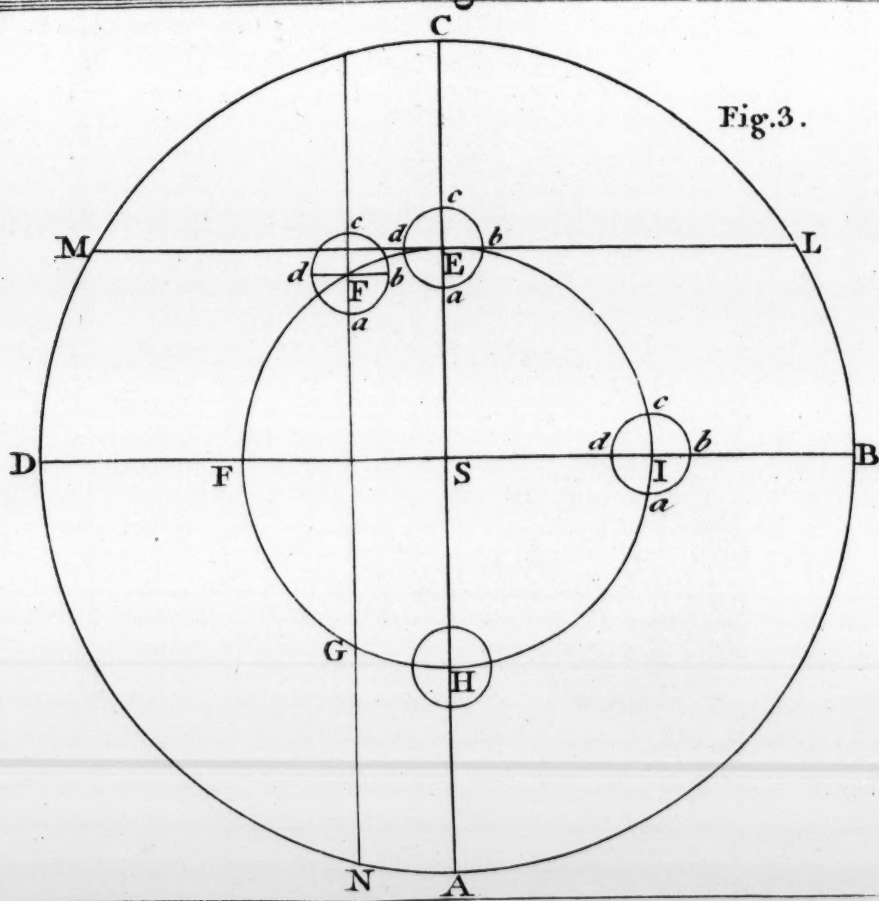
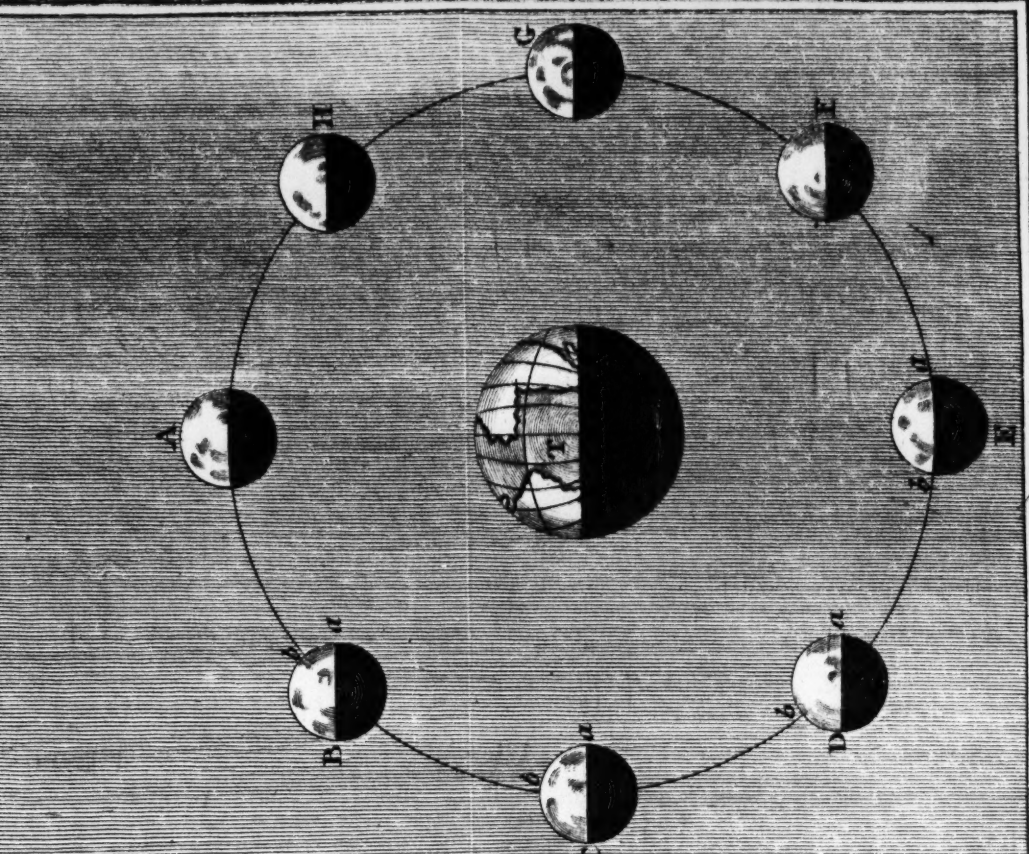


Fig. 3.

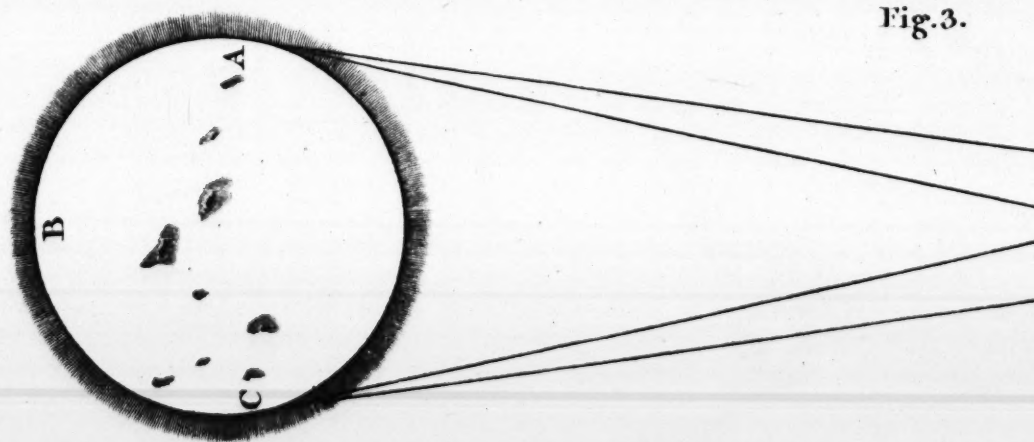
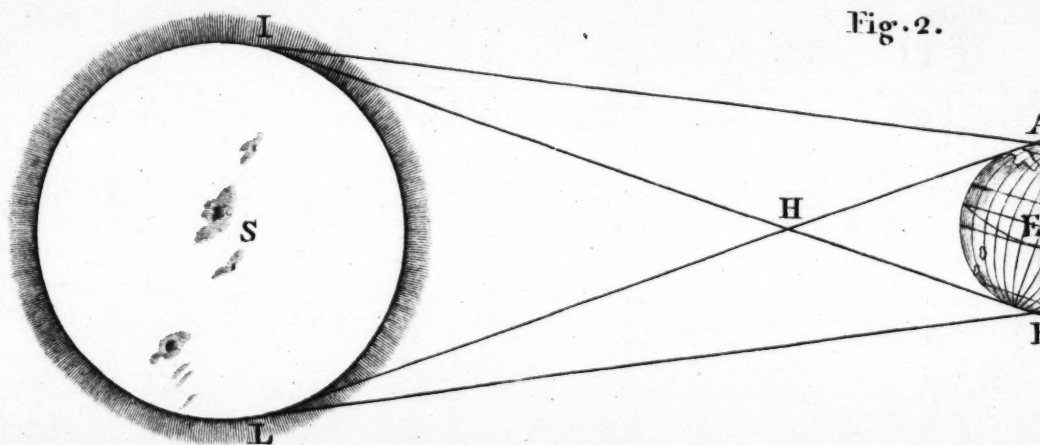
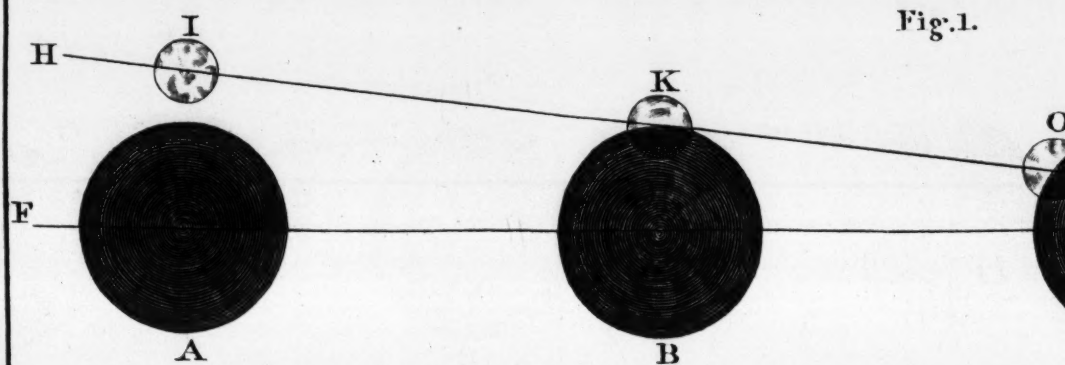


Fig. 1.

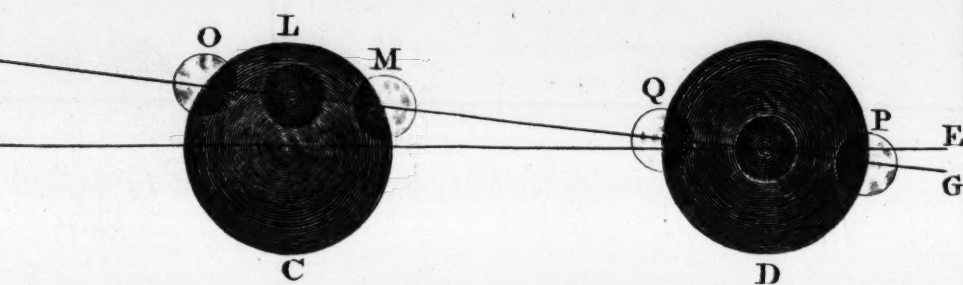


Fig. 2.

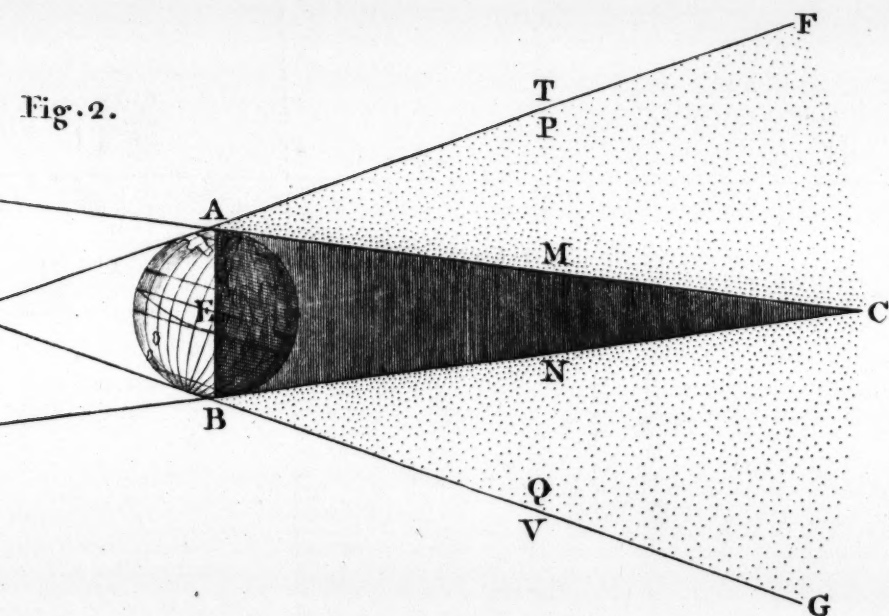


Fig. 3.

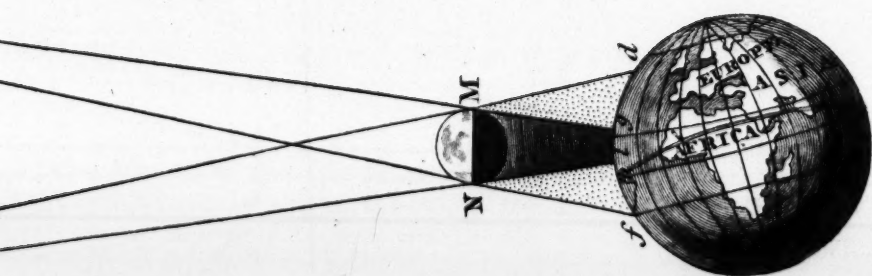
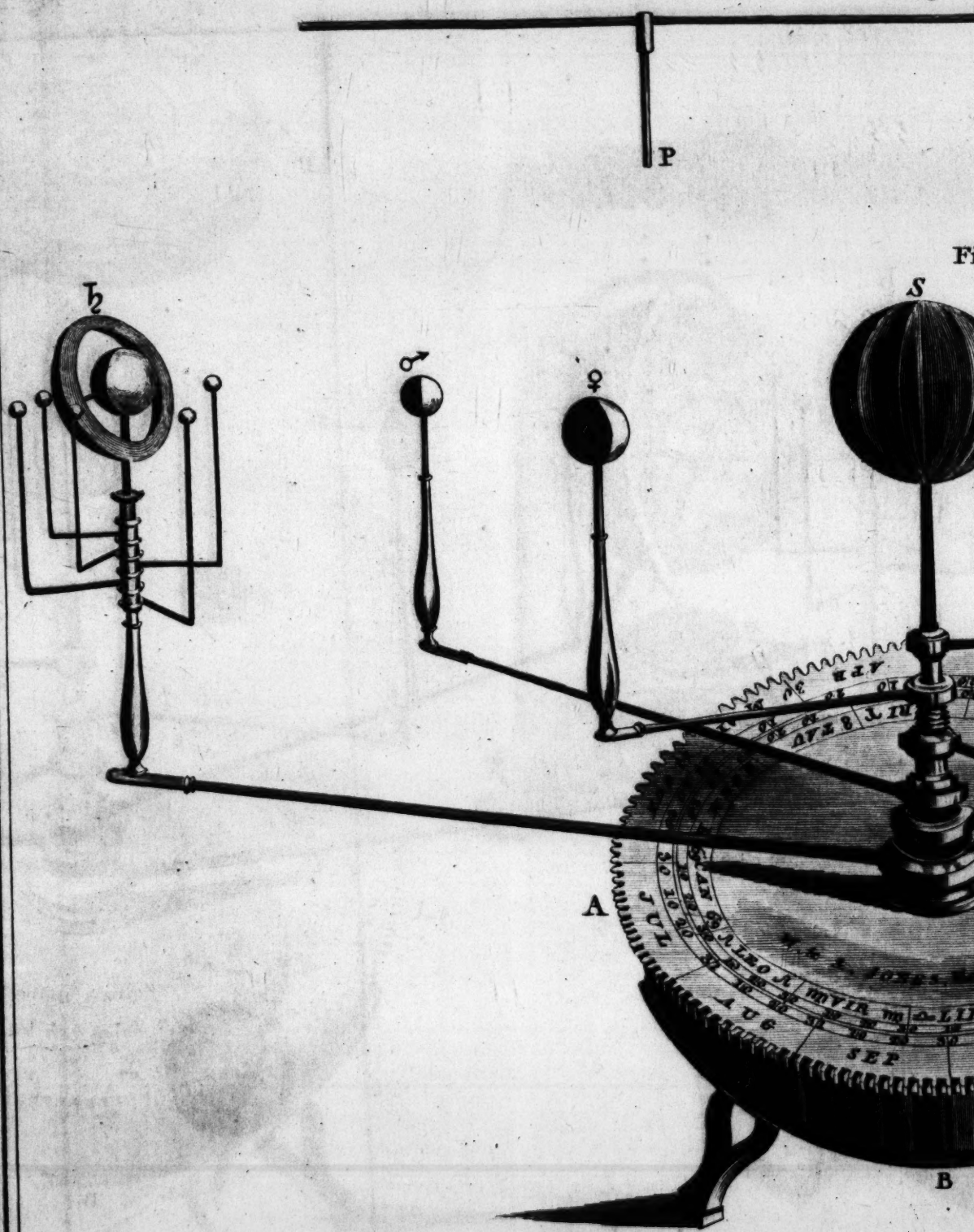


Fig. 2



T. Milne del.

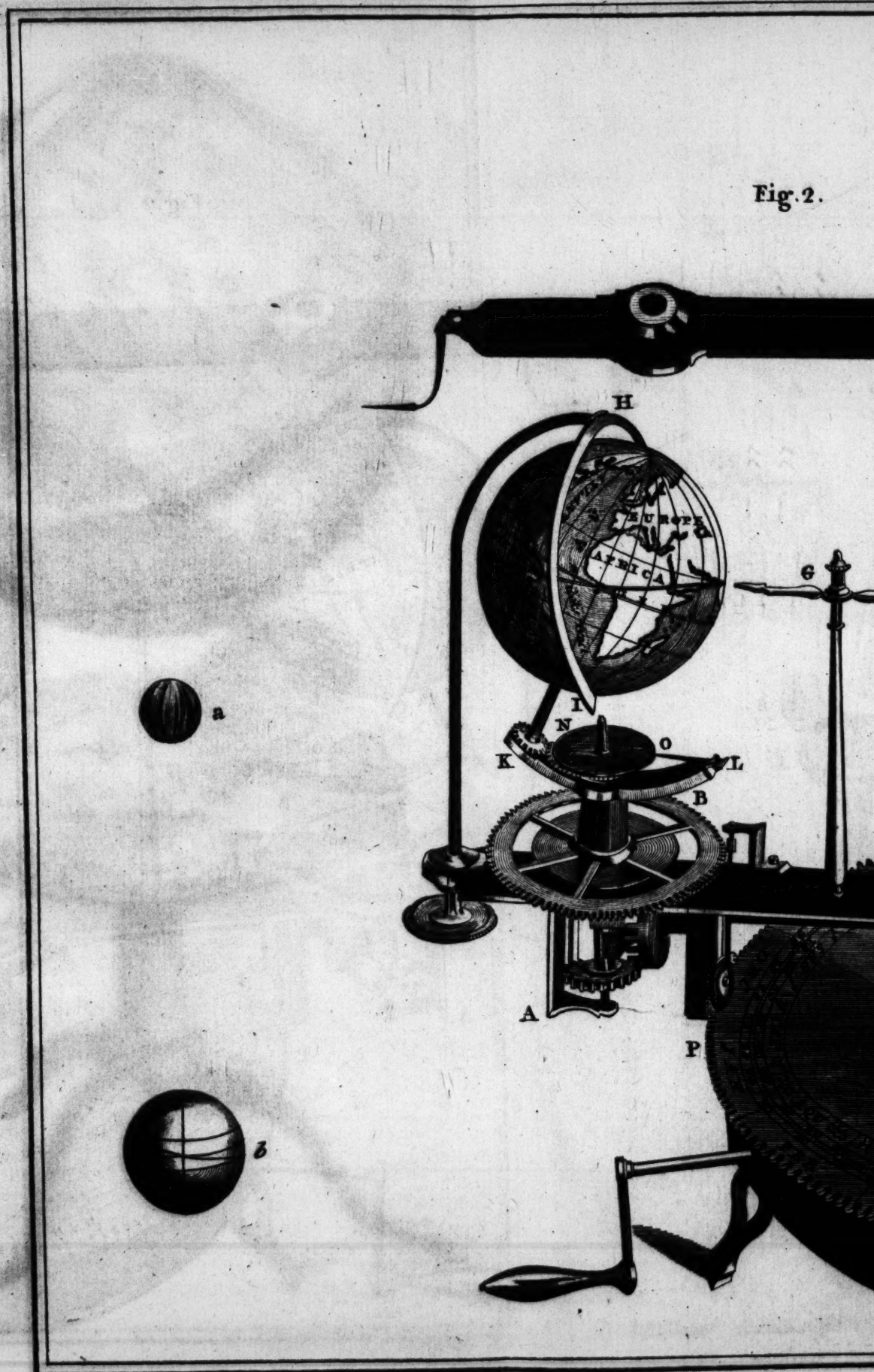
London. Printed for & Published by W. & S. Jones, Holborn

Fig. 2.

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Fig. 2.



T. Milne del.

London. Printed for & Published by W. & S. Jones, Holborn.

Fig. 2.

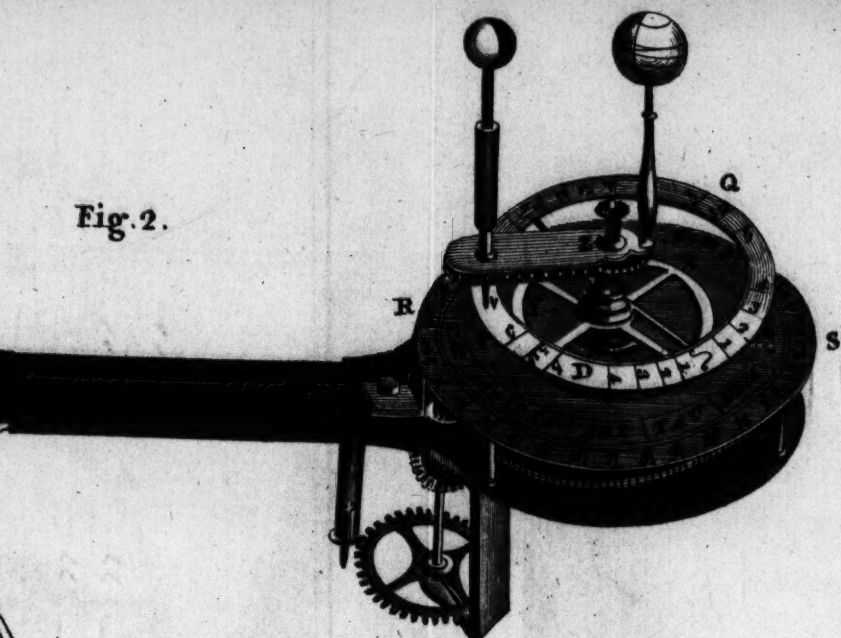


Fig. 1.

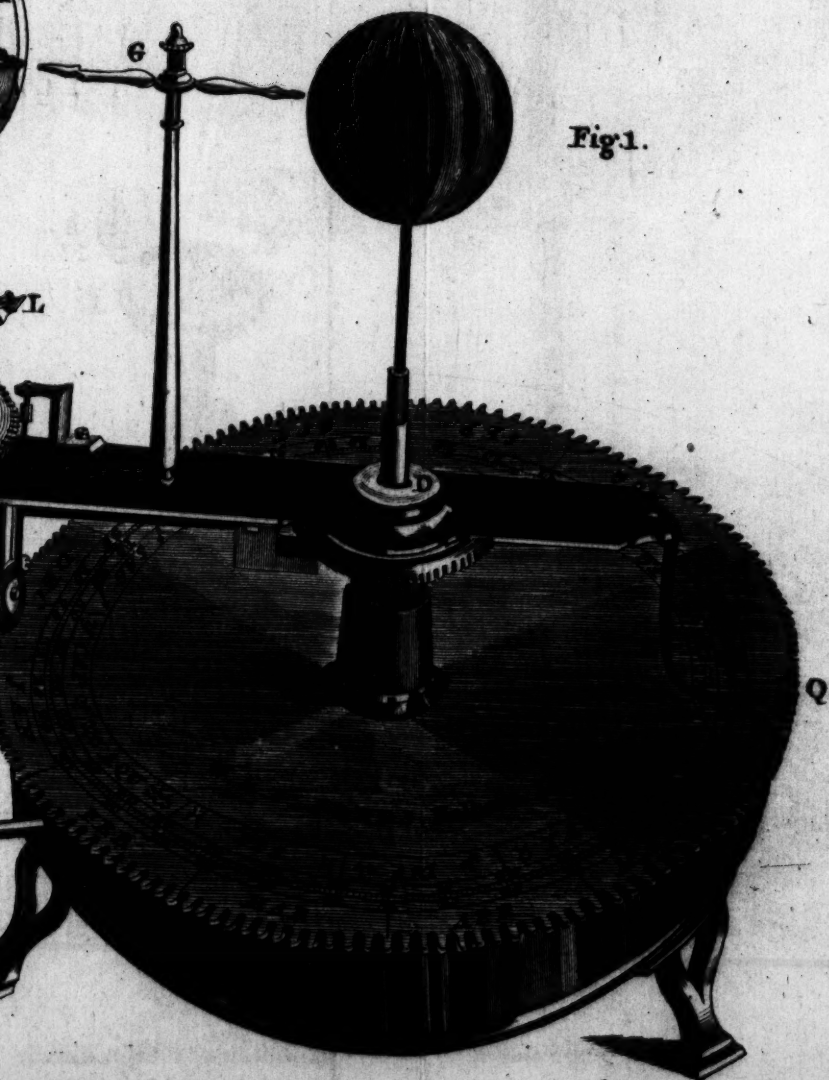


Fig. 2.

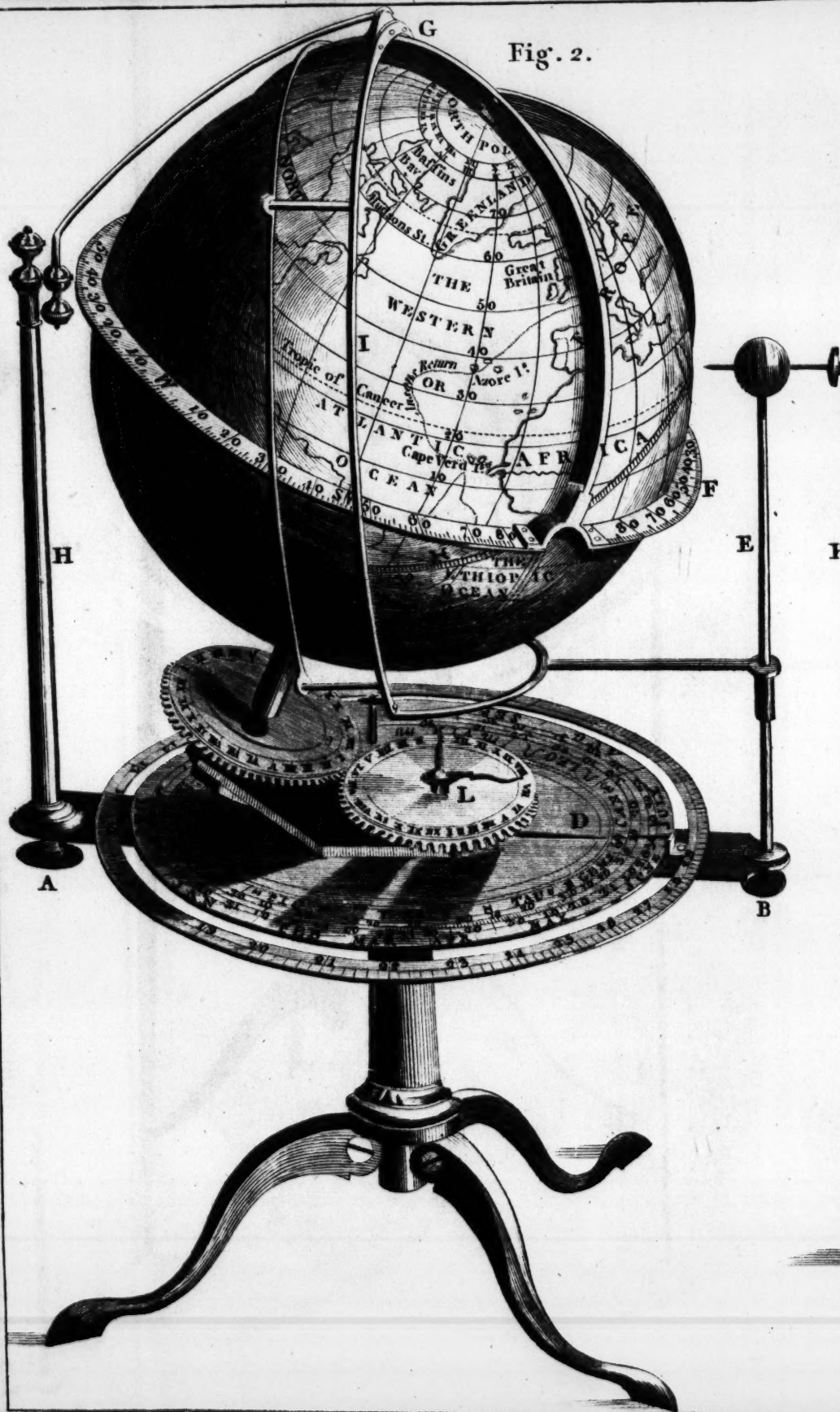
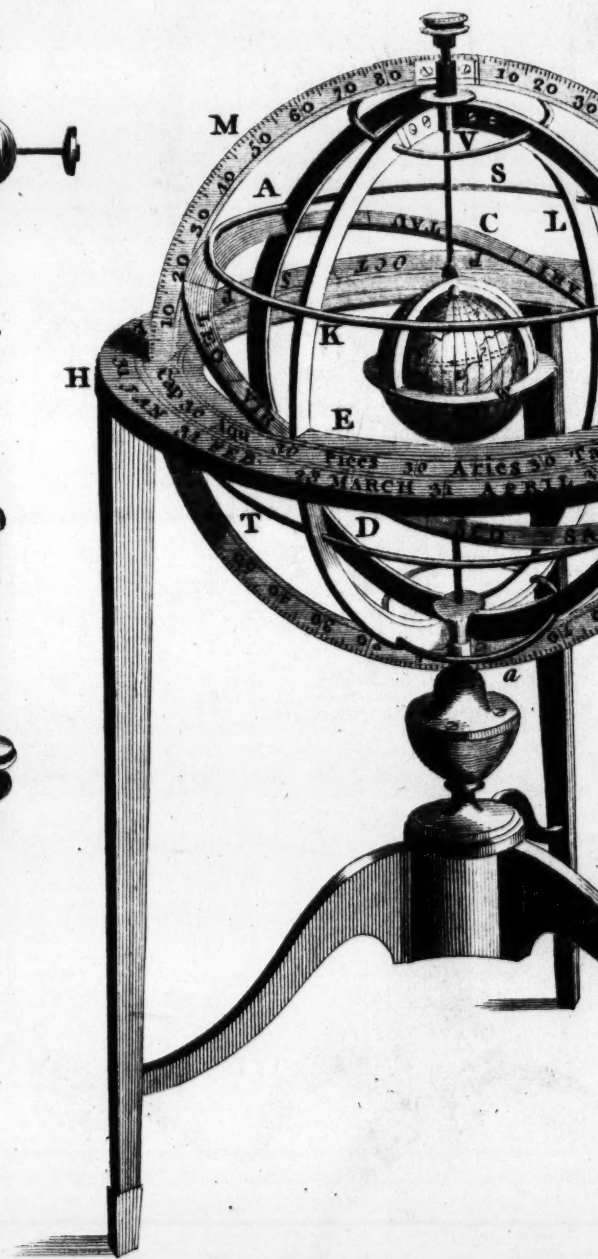


Fig. 1.



W. Jones delin.

Fig. 1.

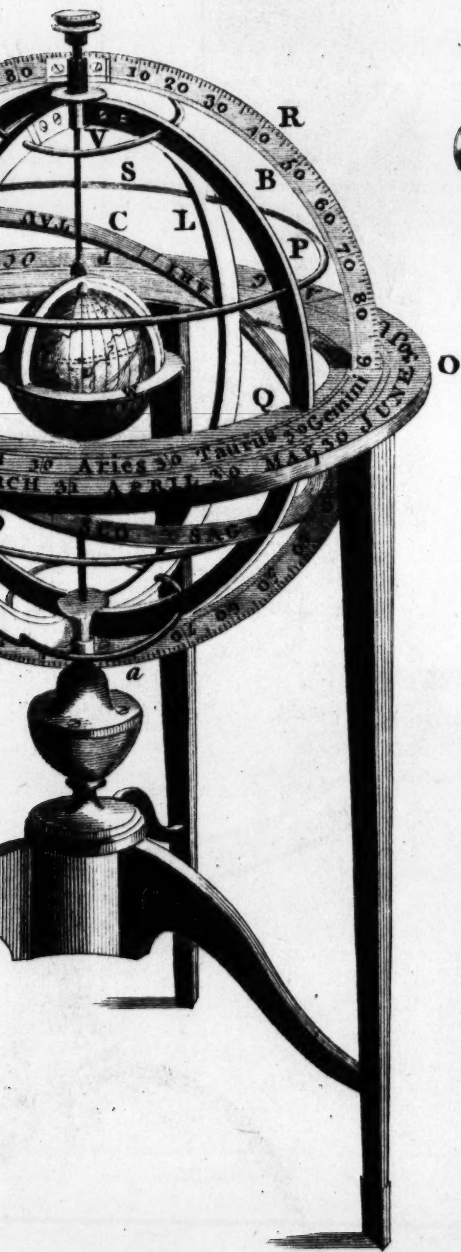


Fig. 3.

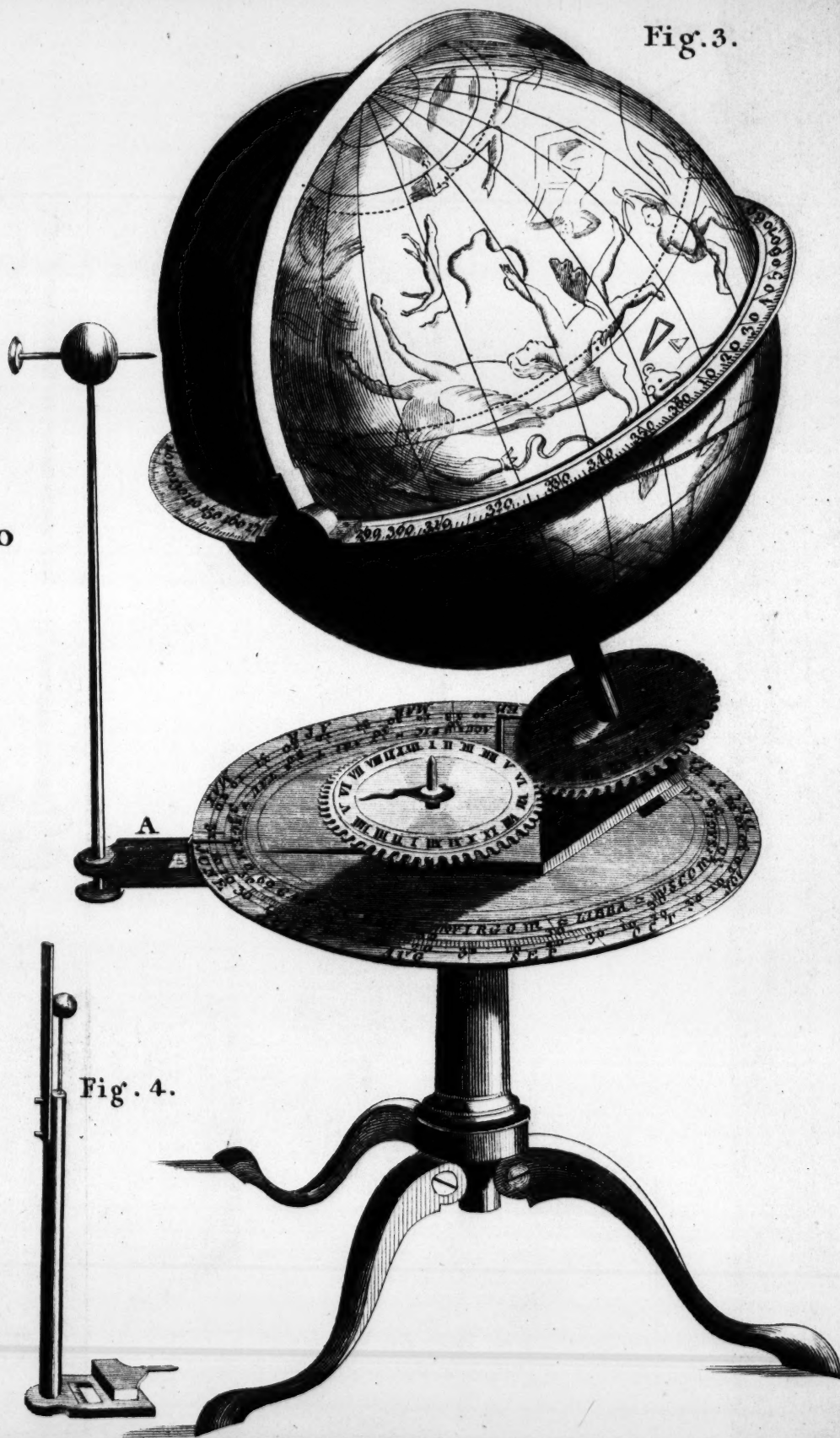
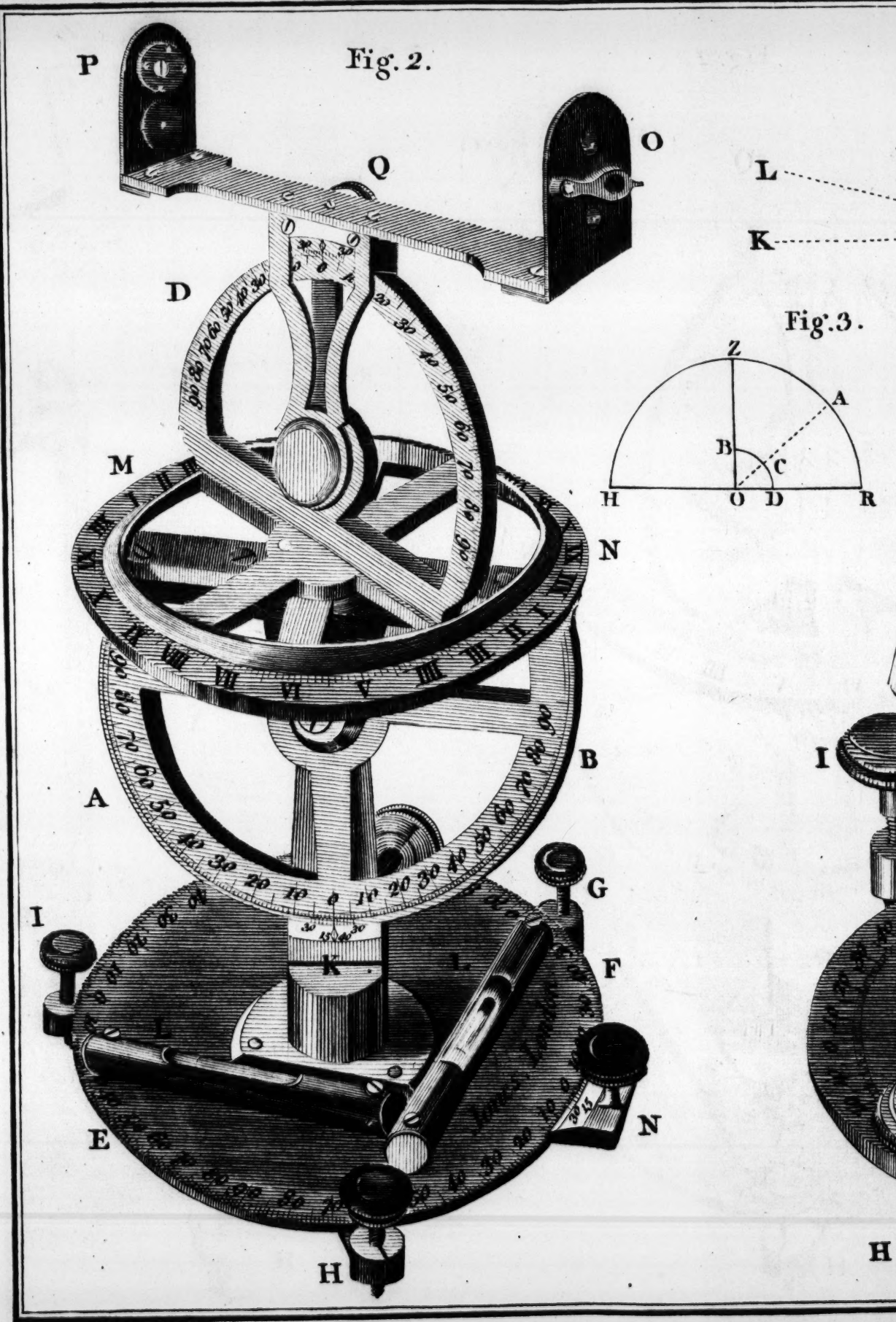
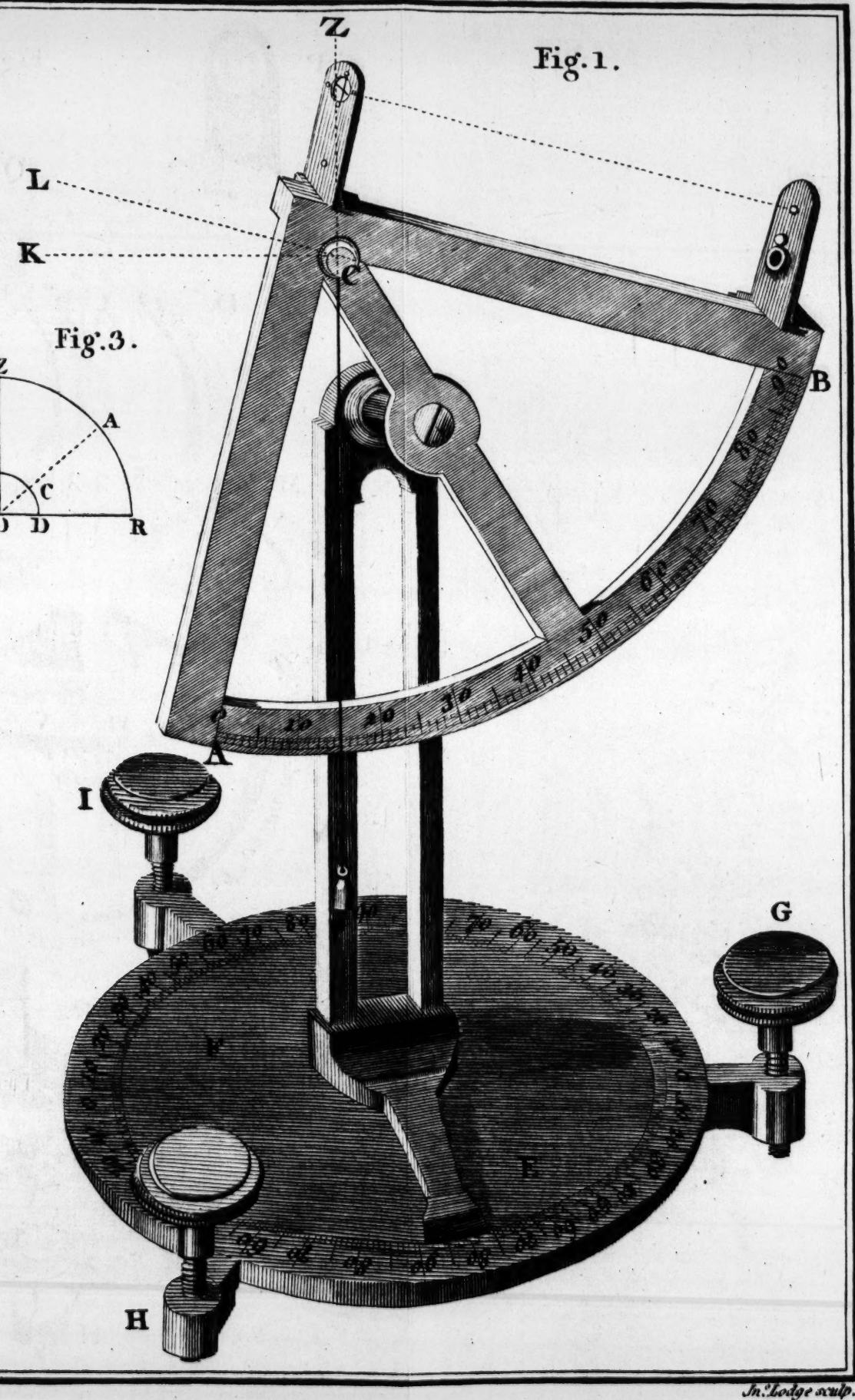
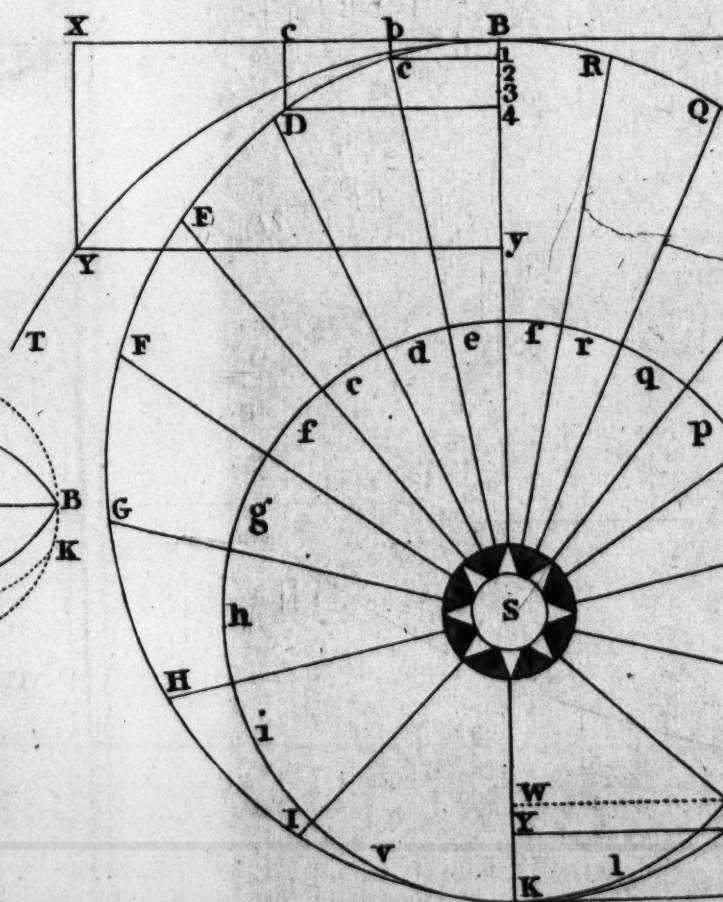
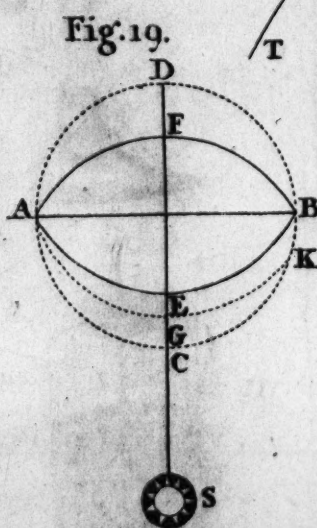
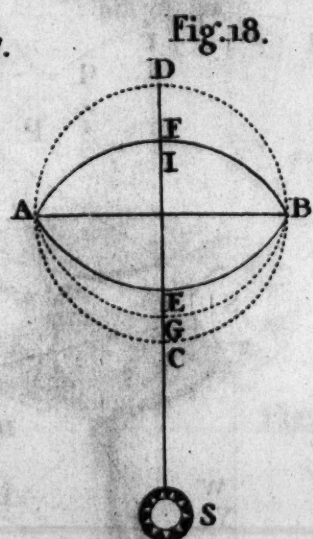
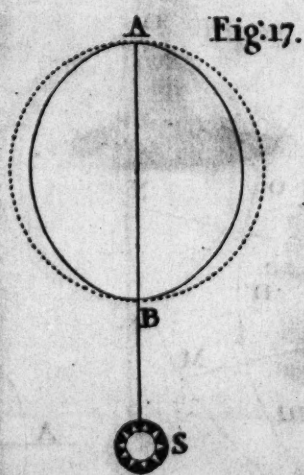
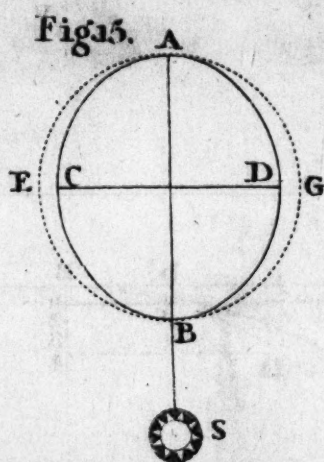
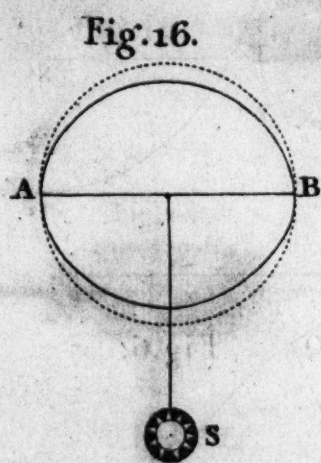
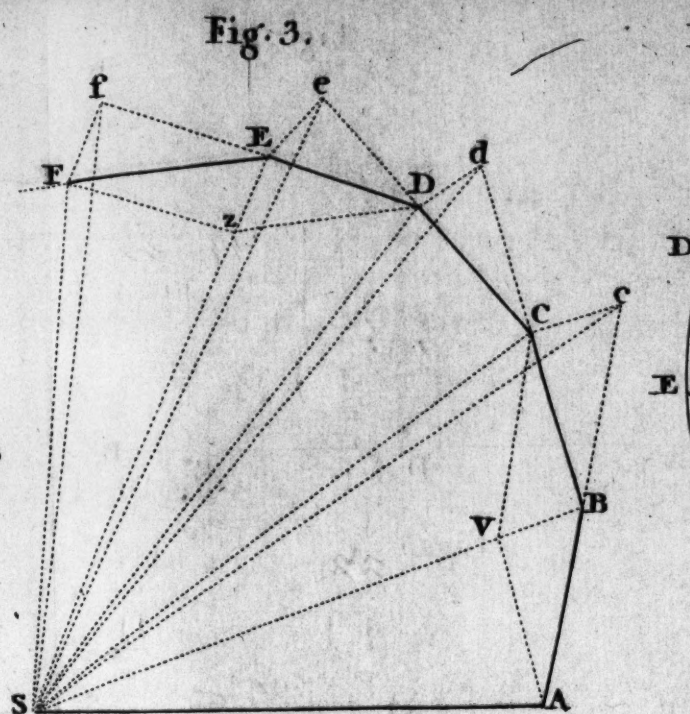
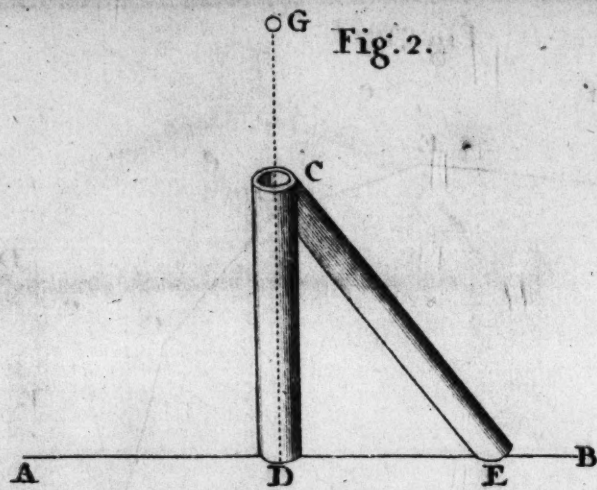
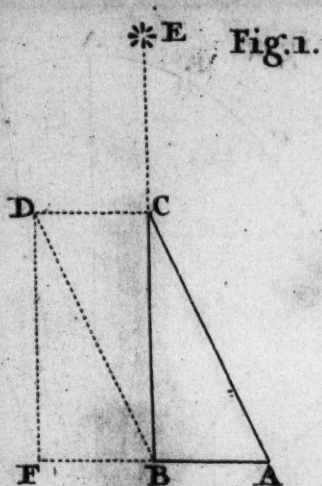


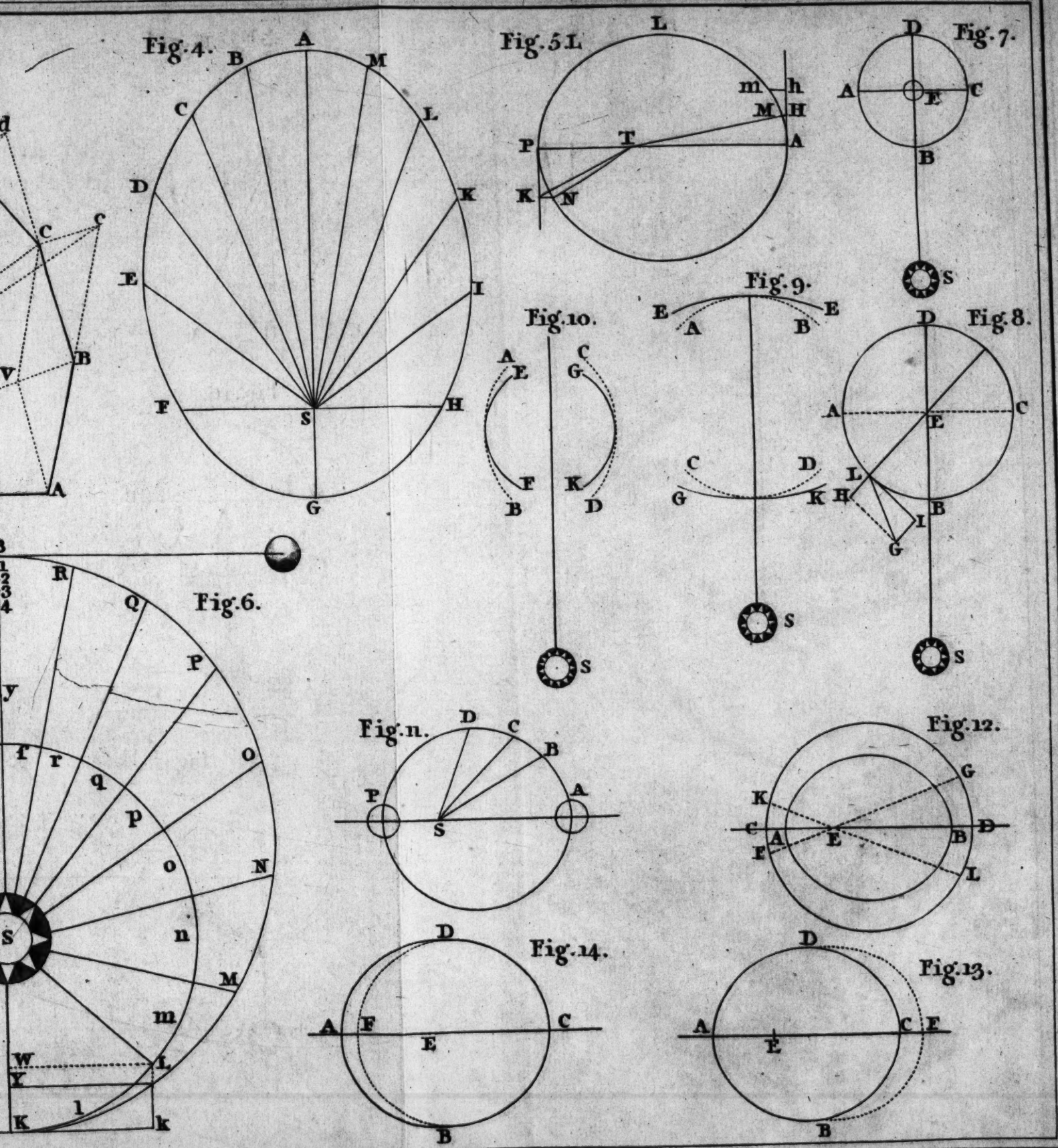
Fig. 4.



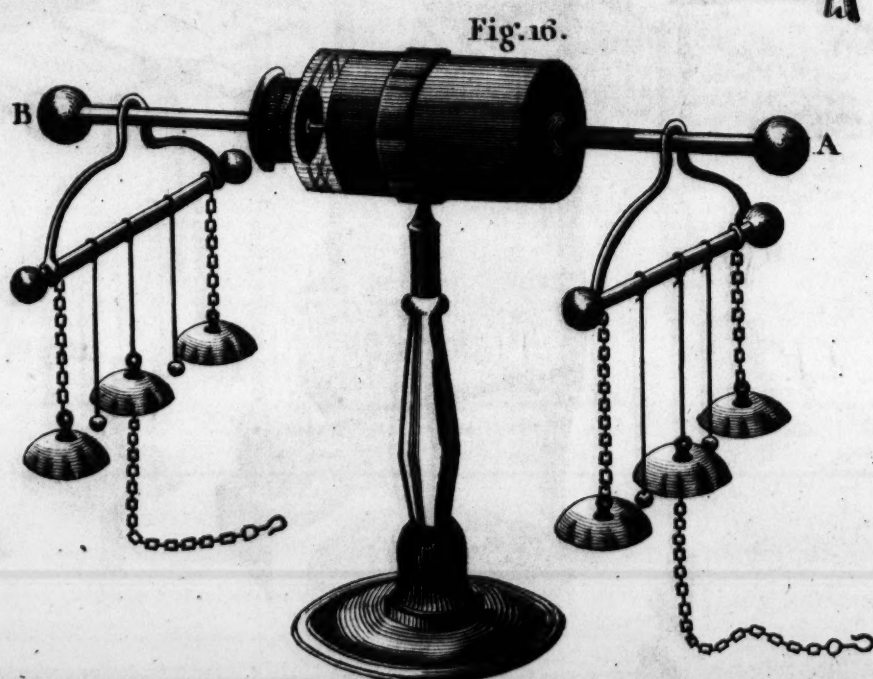
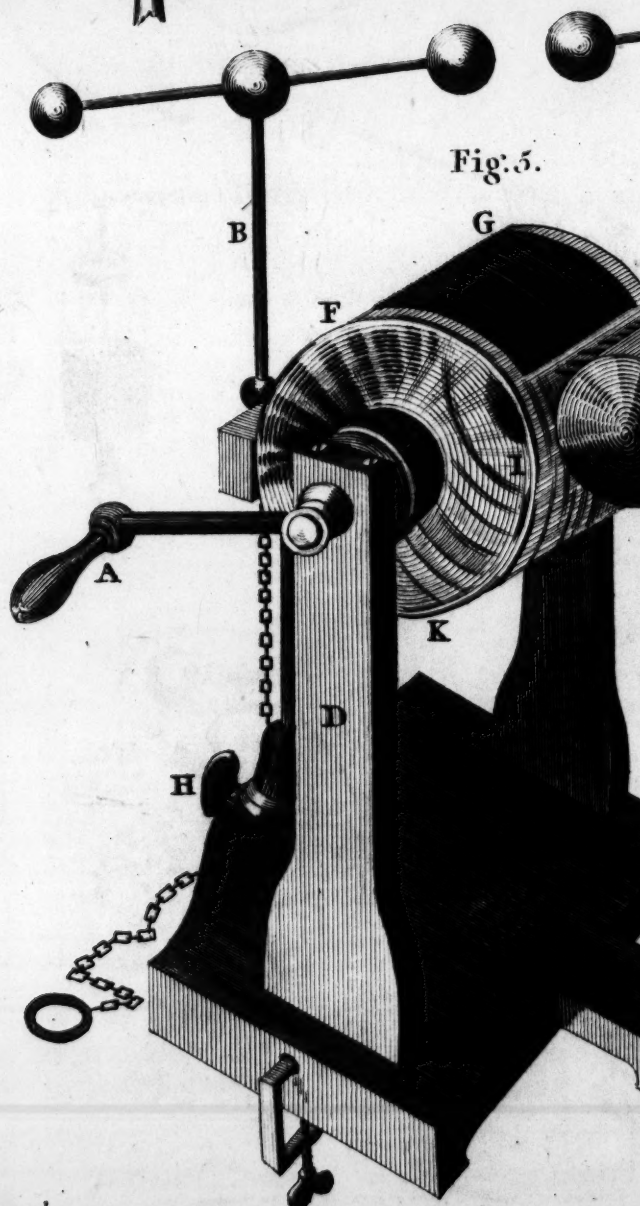
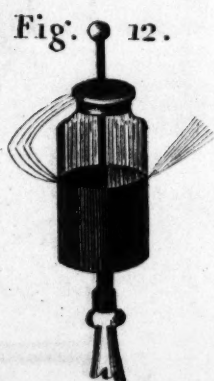
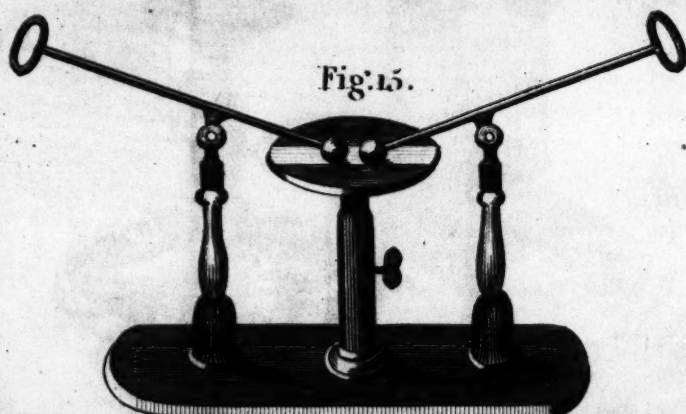
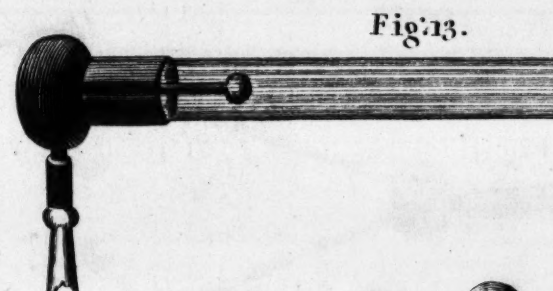
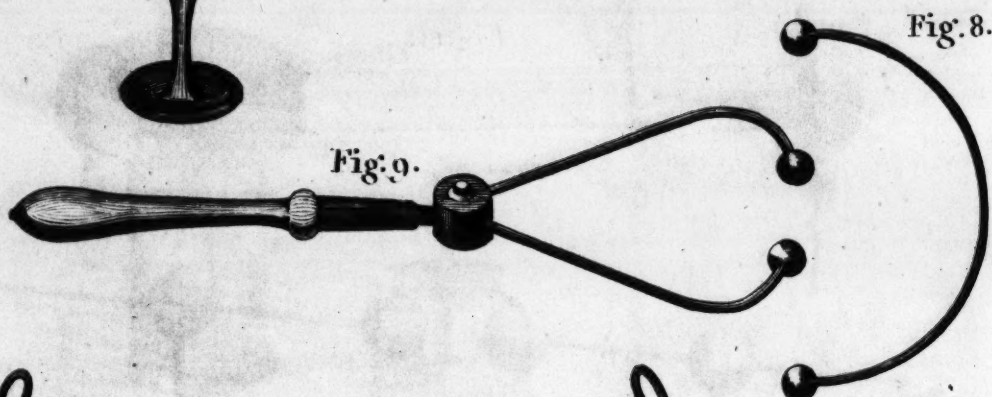
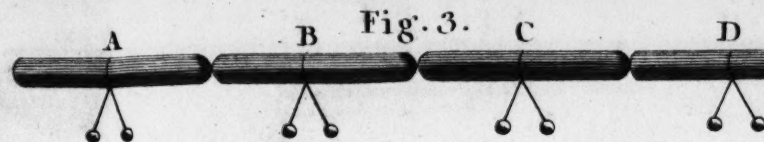
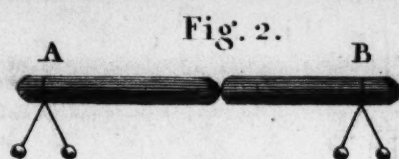
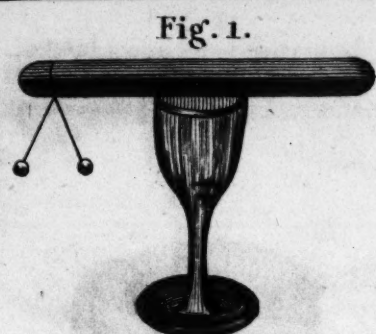
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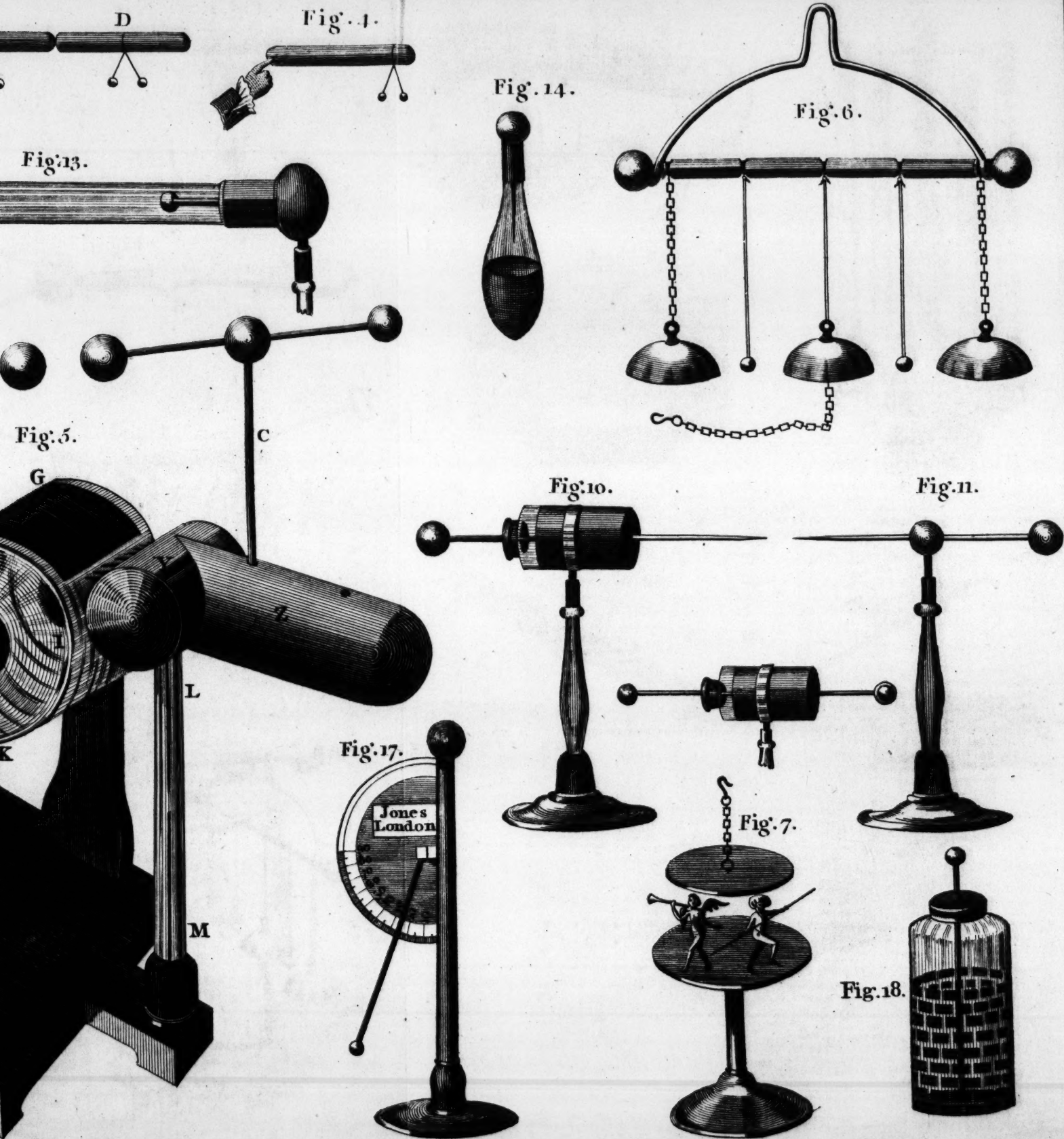






In Lodge sculp.





J. Lodge sculp.

Fig. 2.



Fig. 1.

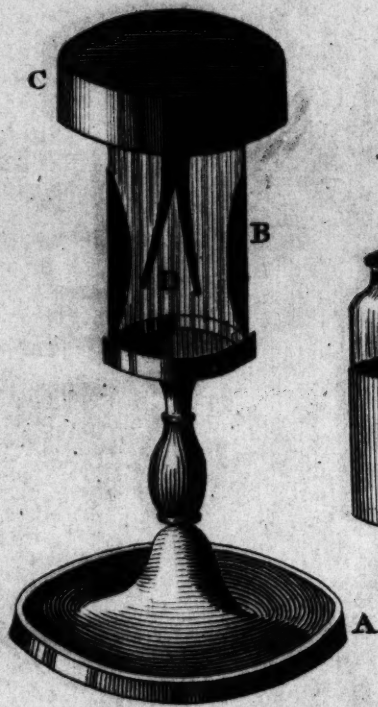


Fig. 3.

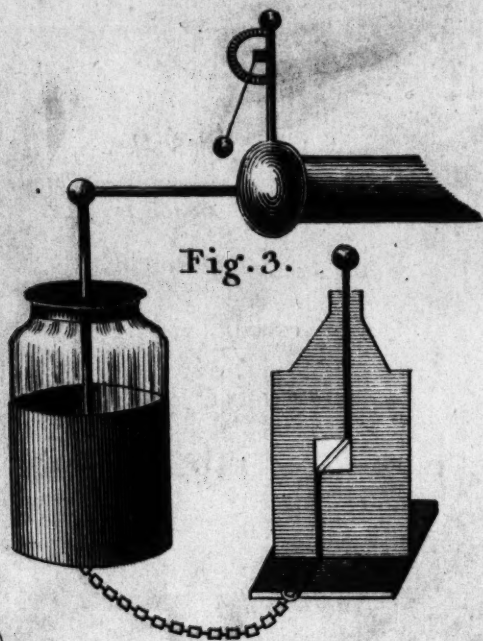


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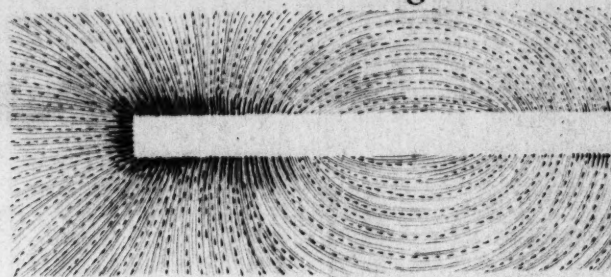


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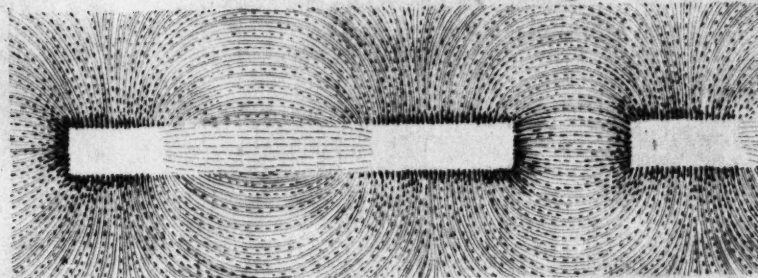


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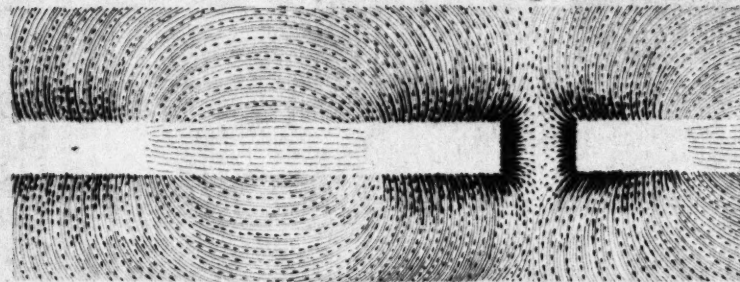


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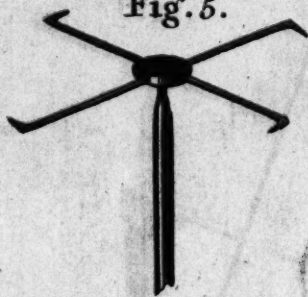


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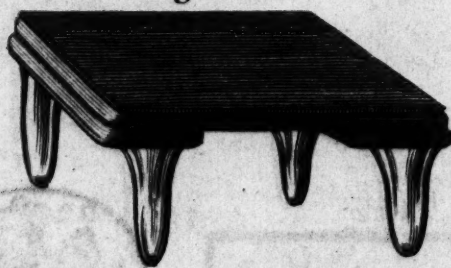


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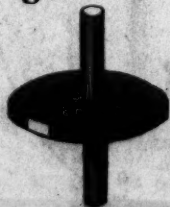


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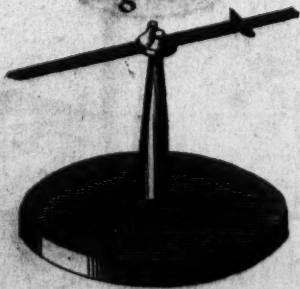
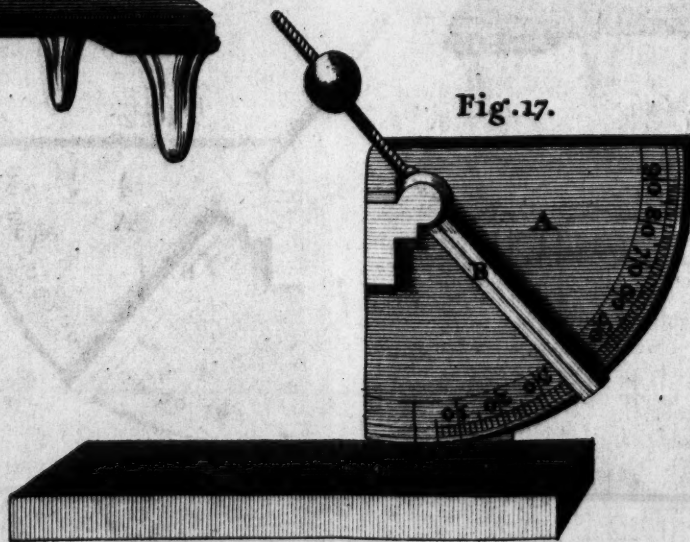
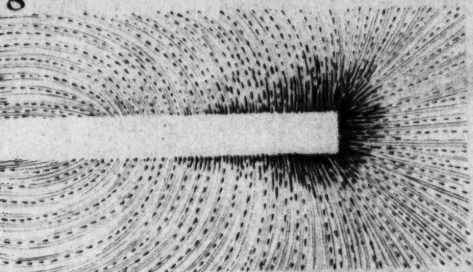


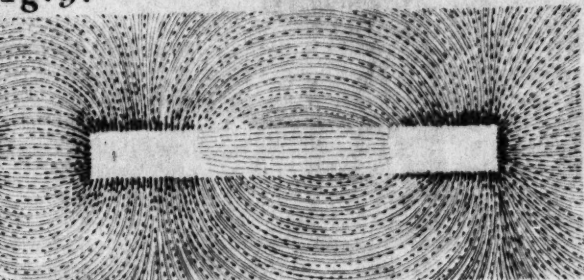
Fig. 17.



g. 8.



ig. 9.



g. 10.

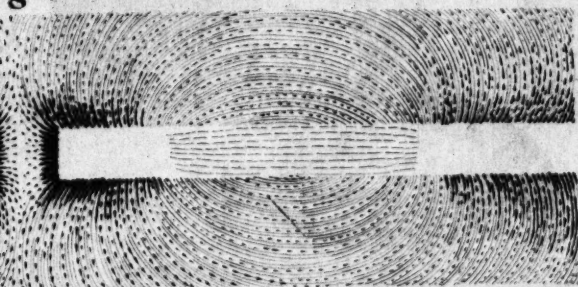


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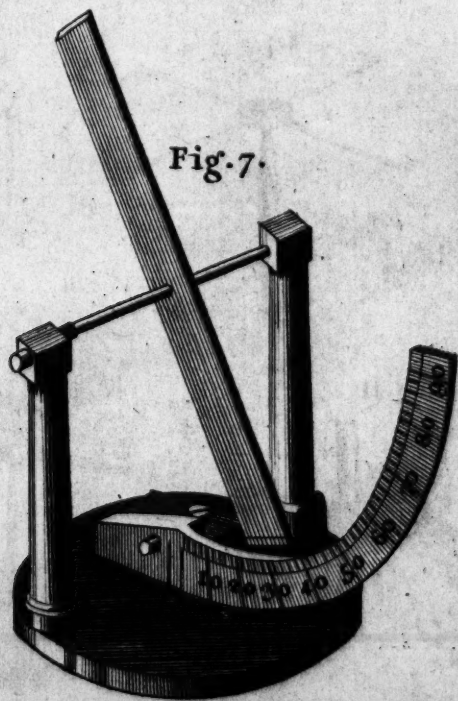


Fig. 15.



Fig. 14.

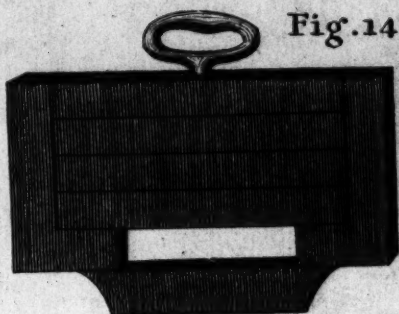


Fig. 4.

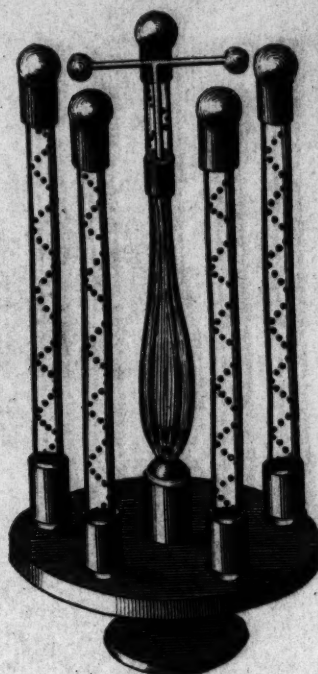


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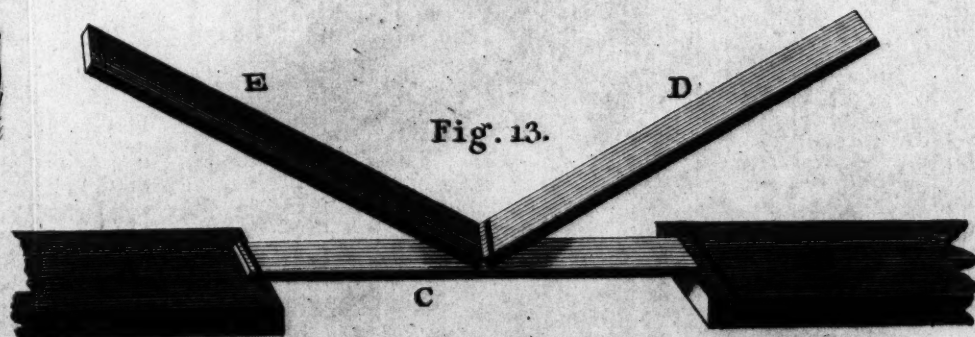
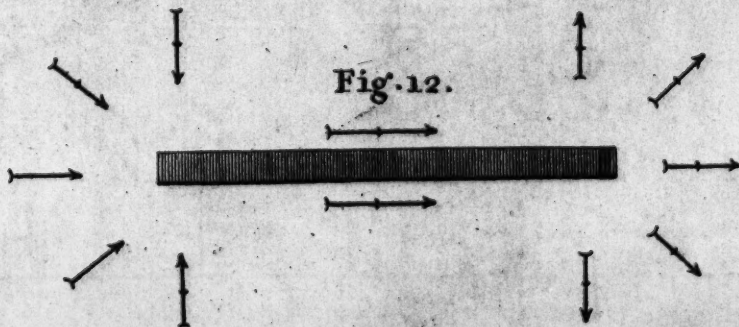
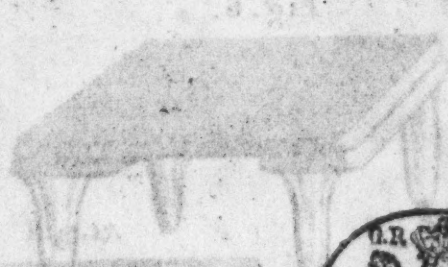


Fig. 12.



In Lodge's comp.



CATALOGUE

OF

Optical, Mathematical, and Philosophical Instruments,

MADE AND SOLD BY

W. AND S. JONES,

[No. 135,]

NEXT FURNIVAL'S-INN, HOLBORN, LONDON



OPTICAL INSTRUMENTS.

£. s. d.

BEST double-jointed standard gold spectacles, with pebbles, and fish-skin gold-mounted case	16	16	0
Ditto single-jointed, with ditto case	10	10	0
Best double-jointed silver ditto, with pebbles	1	16	0
Ditto, ditto, with glasses	1	1	0
Best single-jointed, with pebbles	1	8	0
Ditto, with glasses	0	13	0
Best double-jointed steel ditto, with glasses	0	9	0
An improved sort of ditto for ladies	0	10	6
Second best double-jointed steel spectacles, with spring case	0	7	6
Common ditto	0	4	6
Best single-jointed steel spectacles	0	4	6
Second best ditto	0	2	6
Common ditto	0	1	6
Tortoiseshell spectacles, silver-jointed, with pointed and other shaped sides, peculiar for their lightness and uninterrupted of dressed hair, in morocco leather cases	0	10	6
Ditto, double-jointed frames	0	15	0
Spectacles for eyes that have been couched	0	7	6
Ditto with green glasses for very weak and inflamed eyes, according to the frames, from 6s. to	1	1	0
Ditto for the same purpose, with new contrived portable shades to screen the eyes from candle, or other light	0	15	0
Nose spectacles in silver	0	7	6
Ditto in tortoiseshell and silver	0	4	0
Ditto in horn and steel	0	1	6
Spectacle cases in great variety, from 2d. each to	10	10	0
Concave glasses for short-sighted persons, in horn cases	0	1	6
Ditto in tortoiseshell, pearl, silver, &c. from 2s. 6d. to	2	2	0
Ditto in new-contrived frames for gentlemen when shooting	0	16	0
Reading and burning glasses, in various mountings, from 1s. to	1	16	0
Convex glasses for watch-makers, engravers, &c. from 1s. to	0	10	6
Gogglers, to guard the eyes from the dust or wind	0	3	0
New green light shades for the eyes	0	6	6

	£.	s.	d.
Opera glasses in great variety of mountings, from 4s. 6d. to	2	12	6
Ditto on an improved construction of glasses, plain mounting	1	1	0
REFRACTING TELESCOPES of various lengths, from 6s. to	1	16	0
Ditto to use at sea by night, from 1l. 11s. 6d. to	2	12	6
Achromatic stick telescopes, of various lengths, from 18s. to	4	0	0
The new improved ditto, with three sliding brass tubes, by which an instantaneous view of the object is obtained, and shuts up to a short length for the pocket, of one foot in length, in a case	1	11	6
Second best two-drawers, ditto	1	1	0
Twenty inch best three-drawers, ditto	2	12	6
Ditto second best two-drawers	1	10	0
Two feet best three-drawers, ditto	4	4	0
Ditto second best, ditto	3	3	0
Three feet best four-drawers ditto	6	6	0
Second best ditto	4	4	0
The preceding telescopes, fitted up elegantly with silver or plated tubes, from 2l. 2s. to	21	0	0
Astronomical eye-pieces, and portable brass stands for the above, from 10s. 6d. to	2	12	6
The new-improved 2½ feet achromatic refractor, on a brass stand, mahogany tube, with two sets of eye-glasses, one magnifying about forty times for terrestrial objects, and the other about seventy-five times for astronomical purposes, packed in a mahogany box	9	9	0
Ditto, ditto, the tube all brass, with three eye-pieces	11	1	6
The 3½ feet ditto, ditto, mahogany tube	17	6	6
Ditto, ditto, brass tube	19	8	6
Ditto all in brass, with rack-work motions, &c.	24	3	0
Achromatic perspective glasses for the pocket, in brass, &c. tubes, with a change of eye-glasses, from 12s. to	3	3	0
New-improved ditto, answering the purpose of an opera glass, with a compass and helioscope for viewing the sun, from 1l. 3s. to	2	2	0
New-improved achromatic pocket telescope, which, by a small apparatus within its tubes, is readily converted into a compound microscope	3	13	6
An improved portable seven-inch achromatic telescope in brass, with a stand that packs up into the tube of the telescope, adapted for astronomical uses	3	13	6
REFLECTING TELESCOPES, fitted up either upon the <i>Gregorian Newtonian</i> , or <i>Herschelian</i> principles, with improved wood or metal stands, and other apparatus, for making celestial observations in the most commodious and accurate manner.—The general prices are as follow:			
— Fifteen feet in length, the large metal fifteen inches in diameter, from 250l. to	500	0	0
— Twelve feet in length, fourteen inch metal	200	0	0
— Ten feet in length, twelve inch metal	150	0	0
— Eight feet in length, eleven inch metal	140	0	0
— Six feet in length, nine inch metal	100	0	0
— Four feet long, in brass tubes, with portable brass or mahogany framed stands, from 40l. to	100	0	0

Those reflectors that are constructed upon the principles of Newton or Herschel are about twice the above lengths in the tubes. The reflectors upon the usual Gregorian construction are made with the vertical motion upon a new principle, so as to render them more firm and steady while in use, than any reflectors mounted in the common manner.

A four feet seven-inch aperture Gregorian reflector, with the vertical motion upon a new-invented principle, as well as apparatus to render the tube more steady in observation; according to the additional apparatus of small speculums, eye-pieces, micrometers, &c. from 80 <i>l.</i> to ..				100	0	0
Three feet long, mounted on a brass stand, common mounting				23	2	0
Ditto with rack-work motions, improved mounting, and metals ..				36	15	0
Two feet long, without rack-work, and with four magnifying powers, improved, 13 <i>l.</i> 13 <i>s.</i> to				14	14	0
Ditto improved, with rack-work motions				22	1	0
Eighteen inch on a plain stand				8	8	0
Twelve inch ditto				5	5	0
Telescopes, both refracting and reflecting, fitted up with equatorial, &c. motions, micrometers, adjusting, compensating, &c. apparatus, for the most accurate astronomical purposes						
Common MICROSCOPES, from 2 <i>s.</i> 6 <i>d.</i> to				1	1	0
Wilson's single pocket microscopes, from 18 <i>s.</i> to				2	12	6
Compound microscopes improved, from 2 <i>l.</i> 12 <i>s.</i> 6 <i>d.</i> to				5	5	0
New improved universal ditto				6	6	0
Ditto with the most complete apparatus				10	10	0
Solar microscopes in brass, improved, from 4 <i>l.</i> 14 <i>s.</i> 6 <i>d.</i> to ..				6	6	0
The new opaque and transparent solar microscopes, with improved apparatus, from 10 <i>l.</i> 10 <i>s.</i> to				16	16	0
Ditto of a larger size, with additional megalascopic apparatus, from 14 <i>l.</i> 14 <i>s.</i> to				19	19	0
Ditto, and best compound ditto, packed together in one mahogany box				21	0	0
The LUCERNA MICROSCOPE, as improved by <i>W. Jones</i> , exhibiting images of opaque and transparent objects by night or day, in a manner singularly pleasing, brilliant, and distinct, with upwards of 100 objects, proper apparatus, patent lamp, &c.				16	16	0
Ditto combined with a solar, compound, &c. apparatus, forming the most perfect collection of microscopical apparatus				35	14	0
A portable optical apparatus, consisting of a scioptric ball and socket, a solar microscope, Wilson's microscope, a pocket compound microscope, a pocket telescope, and solar telescope, in mahogany and brass				3	13	6
Pocket microscopes for opaque objects, from 16 <i>s.</i> to				2	12	6
Botannic microscopes for flowers, &c. from 5 <i>s.</i> to				1	11	6
A new universal pocket ditto, adapted to all sorts of objects				1	6	0
Cloth microscopes, from 2 <i>s.</i> 6 <i>d.</i> to				0	10	6
Magic lanthorns, from 1 <i>l.</i> 4 <i>s.</i> to				1	8	0
Sliders for ditto in great variety of subjects, each				0	3	6
A new set of moveable painted sliders, shewing the fundamental principles of astronomy, with the real and appa-						

	£.	s.	d.
rent motions and positions of the planets, stars, &c. &c. accompanied by a proper improved lanthorn, complete ..	13	13	0
Small magic lanthorns, with twelve sliders complete, at 7s. 6d.—10s. 6d.—12s. and	1	0	0
Ditto with twelve sliders of best English paintings	2	2	0
Optical diagonal machines for viewing prints, from 1l. to ..	1	11	6
Perspective views in great variety for ditto, each	0	1	6
Scioptic balls and sockets, from 10s. 6d. to	1	11	6
An artificial eye in brass, to exemplify the nature of vision	1	11	6
<i>For a description of this instrument, as well as of spectacles, reading-glasses, &c. see the late Mr. G. ADAMS's Essay on Vision, 8vo. price 3s. now sold by W. and S. JONES.</i>			
Camera obscuras for the pocket, from 9s. to	1	16	0
A new-invented folding ditto, very portable	2	2	0
Large ditto, shutting up like a book or neat portable chest, the objects represented on paper, from 4l. 14s. 6d. to ...	8	18	6
Concave and convex glass mirrors, in plain black frames, four, five, six, and seven inches diameter, each 9s. 12s. 14s. and	0	18	0
Eight inches diameter ditto	1	1	0
Nine inches ditto	1	7	0
Ten inches ditto	1	12	0
Twelve inches ditto	2	5	0
Fifteen inches ditto	3	13	6
Eighteen inches ditto	6	6	0
Twenty-one inches ditto	11	11	0
Twenty-four inches ditto	16	16	0
Concave mirrors ground cylindrically, possessing several curious properties in the deformation of objects; accord- ing to the size, from 1l. 1s. to	5	5	0
Concave metal burning mirrors, superior to the glass ones, from 3l. 13s. 6d. to	21	0	0
Glass prisms, plain or mounted on stands, from 7s. 6d. to ..	1	11	6
A curious set of optical models, where the rays of light are represented by silken strings, and illustrating the princi- ples of vision, telescopes, prisms, &c. packed in four cases	6	16	6

MATHEMATICAL INSTRUMENTS.

THEODOLITES of the common construction, and of the best workmanship, from 4l. 4s. to	31	10	0
A portable theodolite, with a telescope, level, and vertical arch	7	7	0
Ditto larger, with parallel plates, &c. divided to two minutes	12	12	0
Ditto with rack-work motions, divisions to a minute	22	1	0
A new-improved theodolite, with two telescopes, and con- trivances for very accurate adjustment	36	15	0
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